

SYLLOGE
FUNGORUM

OMNIUM HUCUSQUE COGNITORUM.

DIGESSIT

P. A. SACCARDO

OPUS PRÆMIO REGIO LYNCÆORUM ET BINIS AUREIS NUMMIS CORONATUM

Vol. X.

SUPPLEMENTUM UNIVERSALE

SISTENS GENERA ET SPECIES NUPERIUS EDITA
NEC NON EA IN SYLLOGES ADDITAMENTIS PRÆCEDENTIBUS JAM EVULGATA
NUNC UNA SYSTEMATICE DISPOSITA

Pars II. — DISCOMYCETEÆ-HYPHOMYCETEÆ

Additi sunt FUNGI FOSSILES auctore Doct. **A. Meschinelli**

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Mycologi v. Botanici qui, quocumque modo, Sylloges operi profuerunt *)

(Continuatio. Cfr. vol. VIII, pag. IX).

Italia

G. Gibelli (*Torino*). — O. Kruck (*Roma*). — T. Rossi-Doria (*Roma*).

Austria-Hungaria

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*) Plurimi ex citatis botanicis opera vel opuscula mycologica benevole miserunt, quibus auctor quam maximas agit gratias.

burg). — L. KLEIN (*Freiburg i. B.*) — O. KUNTZE (*Friedenau b. Berlin*). — F. MOEWES (*Berlin*). — R. SADEBECK (*Hamburg*).

Helvetia

H. BOLTSHAUSER (*Amrisweil*) — B. STUDER (*Bern*). — F. v. TAVEL (*Zürich*).

Rossia

V. F. BROTHERUS (*Helsingfors*). — E. WAINIO (*Helsingfors*).

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America borealis

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India

A. BARCLAY † (*Simla, Bengala*).

De nominibus generum sec. cl. O. KUNTZE ex jure prioritatis reformandis.

Cl. doct. O. Kuntze librum nuper edidit (*Revisio generum plantarum*, Lipsiæ 1891) eruditissimum et ob multas plantas novas ibi descriptas perutilem atque egregium. Sed cl. Auctor, prioritatis juris nimio amore deceptus, tot nomina generum vetusta sed inepta resuscitavit, tot nomina ubique accepta futilibus rationibus reijcenda decrevit, tot nomina nova insolenti modo condita proposuit, ut si totas novitates Kuntzeanas acceperimus scientia nostra et confusione maxima periclitaretur et nominibus dissonis et insuetis obrueretur. Non negarem tamen opus Kuntzeanum in eo proficuum esse quod et nominum mutationes nonnullas vere necessarias proposuit et ad accuratiorem plantarum nomenclaturam botanicorum attentionem excitavit.

Ad fungos sermone restricto, sequentia observo et censeo, quæ fortasse et ceteris plantis referri possent.

1. Nomina generica antiqua *male* definita vel *insolenter* conscripta vel e *communi* usu, pro scientifice definitis, normaliter conditis et ubique receptis non restituenda videntur, nec ego pro mea Sylloge accipio. Hinc sequentia nomina antiquorum a Kuntzeo loc. cit. p. 658 et 840-877 in lucem remissa meo sensu reijcenda sunt:

Albugo pro *Cystopus* — *Acinophora* pro *Arachnion* — *Auricula* pro *Hirneola* — *Clathroidastrum* pro *Stemonites* — *Cyathoides* pro *Cyathus* — *Fungoidaster* pro *Leotia* — *Hydrogera* pro *Pilobolus* — *Lactifluus* pro *Lactarius* — *Lycoperdastrum* pro *Scleroderma* — *Lycoperdoides* pro *Polysaccum* — *Sesia* pro *Merulius* — *Merulius* pro *Cantharellus* — *Orbella* pro *Clitopilus* — *Trombetta* pro *Craterellus*.

2. Nomina generica, a semisæculo et ultra oblita, non perfecte definita, ad unam vel paucas species, sæpius heterogeneas, condita, pro generibus rite definitis et nunc specierum magna copia ditatis non reficienda videntur. Hinc innovationes Kuntzeanæ sequentes non approbandæ:

Burcardia pro *Bulgaria* — *Granularia* pro *Nidularia* — *Mastocephalus* pro *Lepiota* — *Gomphus* pro *Cortinarius* — *Mastoleucomyces* pro *Armillaria* — *Patila* pro *Auricularia* — *Phalloboletus* pro *Morchella* — *Pocillaria* pro *Lentinus* — *Pseudofarinaceus* pro *Amanitopsis* — *Striglia* pro *Dœdalea*. — *Terana* pro *Corticium*.

Nec delendum est, ut proposuerat cl. Johanson, nomen generis distinctissimi et vastissimi *Sphærella* (Fr.) Ces. et De Not. (1849, 1863) pro *Sphærella*

Somm. (1824) genere algarum speciebus binis heterogeneis innixo et jam emortuo cum ill. Fries homonymon condidit (Cfr. Berl. et De-Toni in Att. Ist. Ven. 1887). Nec delerem nomen gen. *Tubercularia* Tode jam ab a. 1790 ubique acceptum ex eo quod extet homonymus lichen paullo antiquior Wiggersii (1780) qui vero jam ab anno 1794 sub titulo *Bœomyces* omnibus est notus (Cfr. quoque cl. Zahlbruckner in Hedwig. 1892, p. 34). Iisdem fere rationibus non sunt delenda nomina notissima *Erythrina* pro *Corallodendron* et *Hymenula* pro *Hymenella* ab ipso auctore Frieso jamdiu rejectâ.

3. Nomina generica quocumque modo etsi levissime, immo unica littera, a ceteris diversa non commendanda sunt sed quæ jam condita et recepta, sunt legitime servanda *). Si distinguo *Livius* a *Livia*, *Antonius* ab *Antonia*, *Grove* a *Groves*, *Curtis* a *Curtiss*, *Kuntze* a *Kunze* ita et distingui possunt et debent, invito Kuntzeo, sequentia nomina:

Anthurus ab *Anthurium* — *Stilbum* a *Stilbe* — *Lestadia* a *Laestadia* — *Cytosporium* a *Cytospora* — *Graphium* a *Graphis* — *Cyphella* a *Cyphelium* — *Coryne* a *Coryneum* — *Gonatobotryum* a *Gonatobotrys* — *Trichosporium* a *Trichospora* — *Cephalothecium* a *Cephalotheca* — *Cyathus* a *Cyathea* — *Henriquesia* ab *Henriquezia* — *Apiosporium* ab *Apiospora* — *Urospora* ab *Urosporium* — *Coccospora* a *Coccosporium* — *Macropodia* a *Macropodium* — *Dicoccia* a *Dicoccum* — *Acrotheca* ab *Acrothecium* — *Trichocladium* a *Trichocladus* — *Lasiosphæra* a *Lasiosphæria* — *Nolanea* a *Nolana* — *Leptotrichia* a *Leptotrichum* — *Sparassis* a *Sparaxis* — *Polytrichia* a *Polytrichum* — *Libertella* a *Libertiella* — *Omphalia* ab *Omphalea* — *Acetabula* ab *Acetabulum* — *Eriosphæra* ab *Eriosphæria* — *Achlya* ab *Achlys* — *Protoderma* a *Protodermium* — *Eurotium* ab *Eurotia* — *Scoria* a *Scorias* — *Lachnea* a *Lachnaea* — *Selinia* a *Selinum* — *Microglossum* a *Microglossa* — *Syncephalis* a *Syncephalum* — *Arthrobotryum* ab *Arthrobotrys* — *Orthotricha* ab *Orthotrichum* — *Xanthoglossum* ab *Xanthoglossis* — *Capnodium* a *Capnoides* — *Diplosporium* a *Diplospora* — *Dactylium* a *Dactylis*.

4. Nomina vero generica rite definita et bene conscripta restauranda sunt pro recentioribus æque valentibus, quæ ergo abolenda sunt. Ita ipse jam dolevi meum *Hippocrepidium* pro *Hirudinaria* Ces., *Morthiera* Fuck. pro *Entomosporium* Lév. etc. et multi multa alia. Ita et *Phallus* videtur restaurandus pro *Ithyphallus*.

5. Et necessario delenda sunt nomina generica, quæ exacte homonyma sint cum anterioribus aliter valentibus. Sub hoc titulo reapse accipienda sunt nomina nova (pauca fauste!) a cl. Kuntze proposita vel in usum revocata, nempe:

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*) Ipse immerito (et me pœnitet!) jam ab anno 1872 ob anterius genus *Nitzschia* ex Algis, mutavi *Nitschkia* Fuckelii in *Cœlosphæriam*, sed revera suo loco *Nitschkea* (nomine leviter correcto) est redintegranda. Gen. *Cœlosphæria* vero, sensu cl. Ellisii non delendum est sed reservandum speciebus *Nitschkeæ* peritheciis sparsis. Cfr. ejusdem egregium opus «North. Am. Pyr.» p. 246

Broomeola O. K. loc. cit. pag. 845 pro *Endodesmia* B. et Br. (1871) nec Benth. (1862). Species: *B. glauca* (B. et Br.) O. K.

Clarkeinda O. K. loc. cit. pag. 848 pro *Chitonia* Fr. (1836), nec Moc. et Sessé (1824). Species: *C. Coprinus* (Fr.) O. K., *C. pedilia* (B. et Br.) O. K., *C. poderes* (B. et Br.) O. K. et *C. rubriceps* (C. et M.) O. K.

Cohnidonum O. K. loc. cit. p. 849 pro *Cladothrix* Cohn (1875), nec Moq. (1849). Species: *C. dichotomum* (Cohn) O. K.

Drudeola O. K. loc. cit. p. 851 pro *Peckia* Clint. (1875), nec Vellozo (1825). Species: *D. Sarraceniæ* (P. et C.) O. K. et *D. Clintonii* (Peck) O. K.

Halterophora Endl., O. K. loc. cit. p. 855 pro *Tipularia* Chev. (1822) nec Nutt. (1818). Species: *H. fulva* (Chev.) O. K.

Thozetella O. K. loc. cit. p. 873 pro *Thozetia* Berk. (1872) nec Benth. (1869). Species: *T. nivea* (Berk.) O. K.

Voglinoana O. K. loc. cit. p. 874 pro *Cystophora* Rab. (1844) nec J. Ag. (1841). Species: *V. craterioidea* (Rab.) O. K. et *V. fruticulosa* (Link) O. K.

Willkommlangea O. K. loc. cit. p. 875 pro *Cienkowskia* Rost. (1873) nec Reg. et Rach. 1858. Species: *W. reticulata* (A. et S.) O. K.

Zukalina O. K. loc. cit. p. 875 pro *Gymnodiscus* Zuk. (1887) nec Less. (1831). Species: *Z. neglecta* (Zuk.) O. K., *Z. dura* (Zuk.) Sacc.

Quod ad *Trichoscyphum* Cooke (1879) attinet, quam ob homonymam Hookeri (1862) cl. Kuntze in *Cookeinam* mutavit, monendum est genus Hookeri sec. Baill. Dict. Bot. IV, p. 217 esse synonymon *Sorindeiæ* et tunc genus Cookei esse servandum.

Ex iis quæ præcedunt fauste patet paucissimas ex permultis renovationibus Kuntzeanis esse, saltem meo sensu, adhibendas.

Profecto cl. Kuntze non dubitavit 75 genera et 2454 species fungorum nomine novo donare, dum ut visum est, vix 8 genera cum 14 speciebus oportet tantum nomine reformare. Nomina nova Kuntzeana pleraque, ut multi botanici jam notaverunt, omnino sunt ingrata et insueta (e. g. inter fungos *Cohnidonum, Clarkeinda, Voglinoana, Willkommlangea*) sed ego ea certa non mutabo. Nimium, eheu nimium mutavit cl. Kuntze, sed ejus mutationes ut plurimum superfluas et noxias quis adhibere audebit? Meminerimus et in nomenclaturæ lege *summum jus esse summam injuriam.*

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*) Plurimæ quoque contributiones mycologicæ, quas contuli, reperiuntur in diariis v. actis Societatum e. g Nuovo Giornale botanico italiano, Malpighia, Bollettino della Societa botanica italiana, Bulletin de la Soc. bot. de France, id. de Belgique, Annales de Sciences naturelles, Bot. Zeitung, Linnæa, Flora, Oesterr. bot. Zeits., Bericht der deut. bot. Gesellsch, Journal of Botany, Journ. Linn. Soc., Botan. Gazette, Bull. of Torr. bot. Club etc. etc.

Quod ad opuscula ex actis et diariis excerpta attinet, dolendum est quamplurima loco et anno impressionis carere, quo factum est ut sæpissime ad statuendam generum v. specierum prioritatem v. ad quascumque pleniores notitias assequendas longum tempus inquirendo amittamus. Cur auctores v. typothetæ *duo* tantum verba sed perutilia (locum et annum) in extractis addere non curant?

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DISCOMYCETEÆ Fr. — Syll. VIII, p. 3*).

Fam. 1. **Helvellaceæ** Swartz.

Sect. 1. Hyalosporæ.

MORCHELLA Dill. — Syll. VIII, p. 8.

1. **Morchella Finoti** Sarr. et Feuill. Rev. mycol. 1885, pag. 151. — 4464
Pileo conico, tenui, costis verticalibus horizontalibusque alveolos inæquales sordide fulvescentes formantibus, margine nigricantibus; stipite albo-pruinoso, continuo fragili, apice dilatato, basi attenuato dein subbulboso; ascis cylindraceis; sporidiis subglobosis, flavicantibus; paraphysibus linearibus æqualibus.

Hab. in umbrosis silvaticis pr. Fontainebleau Galliæ, majo-junio (Cap. Finot). — Affinis *M. conicæ*.

UNDERWOODIA Peck 43 Rep. p. 32, t. IV, (1890) [Etym. a cl. prof. L. M. Underwood). — Ascoma carnosum, plus minus elongatum, columnare, sessile, extus longitudinaliter sulcato-costatum v. lacunosum, ubique ascigerum, intus excavatum, lacunoso-fistulosum v. cavitates plures longitudinales continens. Asci teretes, octospori, paraphysati. Sporidia ellipsoidea, continua, hyalina. — Indoles *Helvellæ* et *Morchellæ*, sed forma omnino peculiaris.

1. **Underwoodia columnaris** Peck 43 Rep. p. 32, t. IV, fig. 1-4. — 4465
Ascomate conico-columnari, sessili, recto v. curvulo, extus leviter sulcato-costato, albido v. brunneolo, intus albo, longit. pluri-lacunoso; ascis-cylindraceis, 70-80 = 6, octosporis; sporidiis monostichis ellipsoideis, verruculosis, 8-9 = 5, hyalinis, 1-nucleatis.

Hab. inter folia dejecta, Kirkville, Onondaga county Amer. bor. (J. T. Fischer). — Fungus 10-15 cm. alt., 1,6-2,5 cm. lat.

MITRULA Fr. — Syll. VIII, p. 32.

1. **Mitrula luteola** Ell. Am. Nat. 1883, pag. 192. — Tota 1,5-3 cm. 4466

*) Cl. Rehm in suo eximio opere «Deutschl. Discom.» plura genera et species inter Discomycetes descripsit, quæ hucusque inter Lichenes enumerabantur. Has formas egomet ipse hic retuli, sed diagnoses maxime breviavi, ita ut opus Rehmianum, ceterum cuique mycologo necessarium, ad tutiores obtinendas determinationes sit jugiter conferendum.

alta; capitulo plerumque compresso, 0,5-0,7 cm. lato, subplicato, læte flavo; stipite capitulo breviore et pallidiore, tomentoso, sæpe subcavo; ascis angustis, deorsum attenuatis, 90-100 ≃ 5-6, aparaphysatis; sporidiis monostichis, ellipsoideis, subinde inæquilateris, tenuiter 1-2-nucleatis, luteolis (supra chartam elapsis), 6-7 ≃ 2,5-3,2.

Hab. ad terram inter acus pineos in silvis, Newfield N. J. Amer. bor.

MICROGLOSSUM Sacc. — Syll. VIII, p. 39.

1. **Microglossum partitum** Pat. Rev. myc. 1890, p. 135, t. 107bis f. II. 4467
— Globosum, nigrum, coriaceo-gelatinosum, clavula linguiformi, 15 mm. long., 6-8 mm. lat.. sæpius longitr. fissa apiceque incisa; hymenio amphigeno; ascis elongatis, 130 ≃ 10, obtusis, jodo cœrulescentibus, 8-sporis; sporidiis distichis, oblongo-fusoideis, 20-30 ≃ 3-6, rectis v. curvulis, continuis, hyalinis; paraphysibus linearibus, apice cum ascis materie brunnea concretis.

Hab. ad terram Tsang-chan supra Ta-li Sinarum (Delavay). — Stipes 2-5 cm. long., 3 mm. cr., gracilis, glaber. Affine *M. Hookeri.*

HEMIGLOSSUM Pat. in Rev. myc. 1890, p. 135 (Etym. *hemi* dimidium, quasi *Geoglossum* dimidiatum). — Ascoma gelatinoso-coriaceum, simplex v. ramosum, linguiforme v. convolutum, stipitatum; hymenium unilaterale. Asci elongati poro dehiscentes, octospori. Sporidia ovoidea v. fusoidea, hyalina, minuta. Paraphyses lineares.

1. **Hemiglossum yunnanense** Pat. loc. cit. t. 107bis, f. 1. — Clavulis 4468
simplicibus v. ramosis, incisis v. lobatis, margine revolutis, 1 mm. cr., 10-15 mm. long., 4-8 mm. lat., fulvis, facie sterili interiori pallidiori, ob cellulas ovoideas brunneas acervulatas furfuracea; ascis elongatis, stipitatis apice obtusis, 55-60 ≃ 4, octosporis, circa porum jodo cœrulescentibus; sporidiis monostichis, fusoideis, hyalinis, utrinque acutis, 2-guttulatis, 6-7 ≃ 1,5-2; paraphysibus simplicibus, filiformibus, hyalinis.

Hab. ad terram (?), Tsang-chan supra Ta-li Sinarum (Delavay). — Stipes rigidus, brunneo-fulvus, 1-2 cm. long., 2-4 mm. cr.

Sect. 2. Phragmosporæ.

GEOGLOSSUM Pers. — Syll. VIII, p. 42.

1. **Geoglossum pumilum** Winter Grev. XV, p. 91. — Parvum, nigri- 4469

cans; clavula ovata vel subdifformi, capitata, distincta, parum et irregulariter compressa, glaberrima (!), usque 3 mm. longa, ut videtur, viscosa; stipite subcylindrico, sæpe parum compresso et sulcato, usque 6 mm. long., fasciculis pilorum fuscidulis, squarrosis obsito; ascis cylindraceo-clavatis, sessilibus, 8-sporis, 230-255 ≃ 25-27, paraphysibus filiformibus, sursum in clavam crassam, fuscidulam, usque 10 μ. latam, incrassatis, interdum apicem versus articulatis, rectis; sporidiis cylindricis, utrinque parum angustatis rotundatisque, subcurvatis, plerumque 15-septatis, ad septa perparum constrictis, fuscis, 94-110 ≃ 7.

Hab. in terra argillacea, Sao-Francisco in Brasilia (Ule).

Fam. 2. **Pezizaceæ** Fr.

Sect. 1. **Hyalosporæ.**

GEOPYXIS Pers. — Syll. VIII, p. 63.

1. **Geopyxis insolita** (Cooke) Sacc., *Peziza insolita* Cooke Mycogr. f. 375. — Stipitata, carnosa, fragilis, albida, clavata, dein piriformis, demum cyathiformis, 2,5 cm. alt., 1,5 cm. v. ultra diam.; stipite crasso, attenuato; hymenio ochraceo-albo; ascis cylindraceis; sporidiis ellipticis, hyalinis, 22-25 ≃ 10-12; paraphysibus filiformibus, brevibus, septatis. 4470

Hab. ad terram inter folia, in Scotia (Rev. John Stevenson).

PEZIZA Dill. — Syll. VIII, p. 73.

1. **Peziza guaranitica** Speg. Guar. I, p. 135. — Ascomatibus carnosis, 20-30 mm. diam., basi breviter conico-stipitatis, supra dilatato-orbicularibus v. subdimidiato-expansis, globosis, levibus, tactu tamen velutino-asperulis; ad pedicellum tantum vix rugulosis, margine acuto integroque præditis, extus aurantiis, intus carneis vel violascenti-olivaceis, planissimis v. vix undulatis; ascis cylindraceis, antice acutiuscule rotundatis, postice attenuato-pedicellatis, p. sp. 50-65 ≃ 5-7, pedicello 25-40 ≃ 3,5, octosporis; paraphysibus filiformibus, apice rectis et non incrassatis; sporidiis recte v. oblique monostichis, rarius apice distichis, ellipticis, rectis vel sæpe inæquilateralibus vel subcymbiformibus, utrinque obtuse acutatis, 7-10 ≃ 3, non v. grosse 2-guttulatis, hyalinis. 4471

Hab. ad truncos dejectos putrescentes in silvis prope Guarapi Brasiliæ.

2. **Peziza coriacella** Speg. F. Puigg. n. 386. — Ascomatibus discoideo-turbinatis, sessilibus, marginatis, integris, 1-3 mm. diam., extus glabris olivaceis, disco albo-pallescente; ascis clavulatis, octosporis, 70 ≃ 7, obturaculo jodi ope cærulescente; paraphysibus filiformibus capitulatis; sporidiis fusoideo-navicularibus, utrinque acutiusculis, hyalinis, 10-12 ≃ 3. 4472

Hab. in disco truncorum putrescentium in silvis prope Apiahy Brasiliæ.

OTIDEA Pers. — Syll. VIII, p. 94.

1. **Otidea darjeelensis** Cooke Myc. f. 215 (*Peziza*). — Cupulis expansis, subcochleatis, umbrinis, extus pallidis, furfuraceis, 5 cm. vel ultra lat.; ascis cylindraceis; sporidiis minoribus, scabro-punctatis, endosporio simplici, 15 ≃ 8; paraphysibus linearibus. 4473

Hab. ad terram, Darjeeling Indiæ.

DISCINA Fr. — Syll. VIII, p. 99.

1. **Discina Martinicæ** Pat. Journ. Bot. 1890, p. 199. — Ascomatibus expansis orbicularibus, marginatis, 25 mm. lat., extus glabris et fulvis, 4-6 mm. cr., tuberculo stipitiformi brevi, disco plano vinoso-rufescente, 0,3 mm. cr., carne alba firmula; ascis operculatis, cylindraceis, longis, 300-350 ≃ 15, jodo non cœrulescentibus, octosporis; sporidiis monostichis ovoideis, obtusis, subinæquilateris, 20-22 ≃ 10-12, biguttatis v. granulosis, hyalinis; paraphysibus linearibus, æqualibus, granulosis. 4474

Hab. ad ligna putrida, Martinica (P. Duss).

HUMARIA Fr. — Syll. VIII, p. 118.

1. **Humaria hæmatochlora** Sp. F. Arg. IV, n. 216. — Syll. VIII, p. 147. — Var. **microspora** Speg. Guar. I, p. 136. — Ascomatum epithecio sanguineo, papilloso; contextu corticis denso, sublateritio, indistincto, papillarum grosse laxeque celluloso, fulvo-rubro; carne alba, e fibris hyalinis, tenuibus, 2-3 μ. cr., dense strigoseque contextis formata; ascis cylindraceis, antice rotundatis, postice attenuato-pedicellatis, 8-sporis, 55-58 ≃ 5; paraphysibus paullo longioribus, 62-70 ≃ 2-2,5, apice incrassatis acuteque productis; sporidiis ellipsoideis, suballantoideis, obtusiusculis, 6-8 ≃ 1,5-2. 4475

Hab. ad corticem truncorum putrescentium Citri Aurantii in hortis pr. Guarapi Brasiliæ.

2. **Humaria tristis** Bomm. Rouss. Sacc. Contr. Myc. Belg. IV, p. 14. — 4476

Ascomatibus sessilibus, congregatis, 0,7-1 mm. diam., ovoideo-hemisphæricis, fibrillis brunneolis, appressis extus conspersis, disco concavo, dein convexo, brunneo-livido; ascis cylindraceis, 190-195 ≃ 10-12; paraphysibus excedentibus, linearibus, simplicibus; sporidiis monostichis, ellipsoideis, lævibus, 13-15 ≃ 9.

Hab. ad terram ustam Groenendael in Belgio. — Affinis *H. rufescenti.*

3. **Humaria stromella** Cooke et Phil. Grev. XIX, p. 106, *Helotium strumellum* Cooke et Phil. in Herb. Kew. — Gregaria, sessilis v. subsessilis, plana, stromate pallide flavo, submembranaceo insidens, disco immarginato, sulphureo, extus minute granulosa, saturatior; ascis cylindraceis, octosporis, 180 ≃ 10; sporidiis fusoideo-ellipsoideis, 15-19 ≃ 8-9; paraphysibus copiosis, filiformibus, apice curvis et subinde furcatis. 4477

Hab. in muscis emortuis, foliis, frustulis, Winton Novæ Zelandiæ. — Ascomata 1-2 mm. lat. Quoad stroma tenue species *H. carbonigenam* in memoriam revocat.

BARLÆA Sacc. — Syll. VIII, p. 111.

1. **Barlæa ? Archeri** (Berk.) Sacc. *Peziza* Berk. in Hook. Fl. Tasm. II, p. 274, t. XVIII, f. 72. — Sessilis, cinnabarina, primo concava, demum expansa, undulata, 6 mm. lat., deorsum pallidior et leviter tomentella; margine libero; ascis cylindricis; sporidiis globosis, 7-7,5 μ. diam., grosse 1-nucleatis. 4478

Hab. in foliis emortuis plantæ succulentæ cujusdam, Tasmania. — Cl. Cooke monet in litt. in herb. Berkeley nunc tantum adesse exemplar Myxomycetis immaturi collapsi, nec Pezizæ.

LACHNEA Fr. — Syll. VIII, p. 166.

1. **Lachnea pinguis** Bull. t. 396, f. 1 (*Pez.*), *Lachnea carnosa* Quél. XVI Suppl. p. 5, f. 15. — Ascomatibus urceolatis, dein cupularibus, 5-7 mm. lat., crassissimis, floccosis, albo-niveis; contextu albo, roseo-rufo-maculato; hymenio cavo, roseo-incarnato; sporidiis fusoideis, 15-18 μ. long., roseis, 2-guttatis. 4479

Hab. ad lignum putridum in Alpibus Tiroliæ (Bresadola). — *L. leucotrichæ* affinis.

2. **Lachnea Balansæ** Speg. Guar. I, p. 136 (*Peziza*). — Ascomatibus sessilibus, applanato-cupulatis, orbicularibus, 4-5 mm. cr., extus sordide olivascenti-fuscis, furfuraceis, disco plano v. concavo, levi, aureo v. aurantiaco, marginatis, dense longeque setulosis, setulis 4480

rectis, cylindraceo-fusoideis v. cylindraceo-subclavulatis, apice attenuato-acutatis, basi leniter attenuatis, 2-5-septatis, 100-500 ≃ 20-25; ascis cylindraceis, truncato-subrotundis, basi attenuato-pedicellatis, p. sp. 125-135 ≃ 11-12, pedic. 75-85 ≃ 5, octosporis; paraphysibus filiformi-clavatis, 10-15 ≃ 5-8; sporidiis ellipsoideis, utrinque obtusiusculis, 16-18 ≃ 10-11, hyalinis, eguttulatis, dense leniterque verruculosis.

Hab. ad cortices dejectos putrescentes in silvis prope Guarapi Brasiliæ.

3. **Lachnea brasiliensis** (Wint.) Sacc. *Peziza brasiliensis* Winter Grev. XV, p. 91. — Ascomatibus sparsis, sessilibus, carnosis, primo hemisphæricis, demum magis explanatis, disciformibus, marginatis, usque 8 mm. latis, disco plano, aurantiaco-rubro, margine erecto vel incurvo, setis rigidis, longis, fuscis, crassis, septatis obsito cinctis, extus pallidioribus; ascis elongato-cylindraceis, deorsum longe attenuatis, vertice fere truncatis, 8-sporis, 260-280 ≃ 18; sporidiis monostichis, ellipsoideis, utrinque late rotundatis, hyalinis, dense grosseque reticulatis, 25-27 ≃ 14; paraphysibus ascos subæquantibus filiformibus, apicem versus clavæformibus, usque 9 μ. crass. 4481

Hab. ad terram humidam, in quisquiliis putridis, Sao-Francisco in Brasiliæ (Ule).

SCLEROTINIA Fuck. — Syll. VIII, p. 195.

1. **Sclerotinia mycetophila** (Fayod) Sacc. *Peziza* Fayod in Vuill. Etud. biol. s. l. Champ. — Ascomatibus rubro-aurantiacis, stipite brevissimo, a disco parum distincto suffultis, disco pallidissime roseo-aurantiaco, usque ad 3-4 mm. lat., gibberulo, centro subconcavo; ascis basi contortis, apice operculatis, paraphysatis; sporidiis ellipsoideis, levibus, 12 ≃ 8, biguttatis. 4482

Hab. in mycelio Sclerotii, interdum etiam ab eo remota, in Gallia.

HELOTIUM Fr. ex p. — Syll. VIII, p. 210.

1. **Helotium gregarium** Boud. in Har. Champ. Cap Horn p. 192. — Stipitatum, 1 mm. alt., 0,5 lat., luteo-sordidum aut fulvescens; pedicello ad basin brunneo; cupulis planiusculis, extus fulvo-fibrillosis, hymenio ochraceo; ascis cylindraceis, clavatis, 8-sporis, 110-115 ≃ 12; paraphysibus tenuibus, ad apicem sæpe capitatis, capitu- 4483

lo 5-8 μ. cr.; sporidiis oblongis, intus granulosis et sæpius centro 1-guttatis, continuis, 10-12 ≃ 3,5-4.

Hab. gregarium in foliis Fagi betuloidis in insula Clarence Patagoniæ austr. (HARIOT).

2. **Helotium Boudieri** Sacc., *Helotium ochraceum* Boud. in Hariot Champ. Cap Horn p. 192, nec Grev. — Sordide ochraceum, stipitatum, 1,5 mm. alt., 0,8 mm. alt.; cupulis planiusculis aut convexis, extus leviusculis; ascis subclavatis, 8-sporis, 140-150 ≃ 12; paraphysibus cylindraceis, simplicibus aut ad basin divisis; sporidiis oblongo-fusoideis, hyalinis, continuis, intus non granulosis, 17-23 ≃ 6-6,5. 4484

Hab. in foliis siccis Fagi betuloidis in sinu Orange Patagoniæ austr.

3. **Helotium Harioti** Boud. in Har. Champ. Cap Horn pag. 191 (*Calycella?*). — Luteum, breviter stipitatum aut turbinatum, 2-4 mm. lat.; cupulis concavis, extus pruinosis, marginatis, margine subtiliter crenulatis; ascis clavatis, 8-sporis, 120-125 ≃ 7-8; paraphysibus linearibus; sporidiis hyalinis, oblongo-fusoideis, intus granulosis, 12-13 ≃ 3-4, continuis. 4485

Hab. gregarium ad folia et ramos ligni putris in sinubus Saint-Martin et Orange Patagoniæ austr. (HARIOT).

4. **Helotium purpuratum** Kalchbr. in Thuem. M. N. n. 1614 et Diagn. p. 2. — Ceraceo-carneum, firmum; capulis subgregariis, sparsis, subsessilibus aut in stipitem brevem, obconicum attenuatis, 4-8 mm. lat., planiusculis, marginatis, orbicularibus vel leviter repandis, late purpureo-kermesinis, extus cum stipite albo-luteis; ascis cylindraceis, 8-sporis; sporidiis ellipticis, 2-guttulatis, hyalinis, 3-4 ≃ 1,5; paraphysibus creberrimis, linearibus, strictis. 4486

Hab. in ramulis dejectis putrescentibusque, Somerset-East ad Caput Bonæ Spei (prof. P. MAC-OWAN).

5. **Helotium montaniense** Ell. et Anders. Bot. Gaz. 1891, p. 45 cum ic. 1-7. — Substipitatum, pallide carneum, 1-1,5 mm. lat., concavum, margine repando-lobato vel undulato, extus pallidius, glabrum et subplicatum, in stipitem 1 mm. long. alternatum v. subsessile; ascis tereti-clavatis, 60-65 ≃ 6-7, octosporis; sporidiis monostichis, ellipsoideis v. ovato-ellipsoideis, hyalinis, subinæquilateris, 8-10 ≃ 3-4, biguttatis; paraphysibus filiformi-clavulatis. 4487

Hab. in fragmentis ligneis putridis, Sand Coulee, Montana Amer. bor. (ANDERSON).

6. **Helotium venezuelianum** (Klot.) Phil. Grev. XIX, pag. 72, *Peziza* 4488

Klotzsch in herb. Kew. — Gregarium, cupulatum, demum planum v. repandum, umbilicatum, glabrum, 2 mm. lat. stipiteque flexuoso, ascoma æquante, flavo-brunneis; ascis clavatis 60 ≃ 7, octosporis, oblongis vel oblongo-fusoideis, 8-10 ≃ 2-3; paraphysibus filiformibus.

Hab. in lignis decorticatis, Venezuela.

7. **Helotium episphæricum** Peck 40 Rep. p. 66. — Ascomatibus minutis, $^1/_3$-$^1/_2$ mm. lat., gregariis, subsessilibus, primo subhyalinis, dein rubescenti-flavis; disco subplano; ascis subcylindraceis; sporidiis oblongis v. lanceolatis, 5-6,5 ≃ 2,5-3. 4489

Hab. in Hypoxylo Morsei vetusto, Elizabethtown Amer. bor. — Habitus *H. citrini* sed multo minus.

8. **Helotium mycetophilum** Peck 43 Rep. p. 33. — Ascomatibus gregariis, minutis, 250-350 μ. lat., sessilibus vel stipite brevissimo suffultis, planis vel convexis, vix marginatis, extus flavidis; hymenio aurantiaco; ascis oblanceolatis, 75 ≃ 10; paraphysibus filiformibus; sporidiis oblongo-ellipsoideis, continuis, endochromate interdum diviso, 15-17,5 ≃ 7,5-9. 4490

Hab. in Fomite fomentario vetusto, Rainbow Amer. bor. — *H. citrino* et *E. episphærico* subaffine.

9. **Helotium aurantiacum** Cooke Grev. XIX, p. 106. — Sessile vel subsessile, planum, disco aurantio, margine tenui, erecto; ascis tereti-clavatis, 80-100 ≃ 7-9, 6-8-sporis; sporidiis fusoideis rectis v. curvulis, 2-5-guttatis, demum pseudo-septatis, 14-18 ≃ 4-5; paraphysibus simplicibus, copiosis, filiformibus. 4491

Hab. in pag. inf. foliorum emortuorum, in America boreali (J. B. Ellis). — Ascomata 2-4 mm. lat.

10. **Helotium scutellatum** Kalch. et Cooke Grev. XIX, p. 72. — Sparsum, sessile vel subsessile, 2 mm. diam., planum carnosulum, umbilicatum, margine obtusum, extus furfuraceum; disco concolore; ascis tereti-clavatis, 101 ≃ 11, octosporis; sporidiis oblongo-ellipsoideis, brunneolis, 16-19 ≃ 5, pseudoseptatis; paraphysibus filiformibus. 4492

Hab. in foliis coriaceis emortuis in Capite Bonæ Spei (MacOwan). — Fungilli color idem ac folii quo innascitur.

11. **Helotium acicularum** (Roll.) Sacc. *Calycella* Roll. in Bull. Soc. Myc. V, p. 170, t. XV, f. 3. — Carnoso-ceraceum, crassum, primitus turbiniforme, dein applanatum, plus minus regulare, margine leviter prominente, 2-3 mm. lat. extus albido-flavum; disco vitellino, carne alba; ascis oblongo-clavatis, marginato-dehiscenti- 4493

bus et sursum jodo cærulescentibus, octospòris, 160 × 10-12; sporidiis amygdaliformibus, 10-12 × 5-8, hyalinis, aliquando granulosis; paraphysibus filiformibus.

Hab. in acubus Laricum, Zermatt Helvetiæ.

12. **Helotium discedens** Karst. Hedw. 1889, p. 191. — Ascomatibus 4494
sparsis, sessilibus, firmis, concavis vel planiusculis, margine prominente, disco flavente-luteo, extus dilutioribus, glabris, latit. 1. mm. lat.; ascis cylindraceo-clavatis, 8-sporis, 50-60 × 5-6; sporidiis distichis, cylindraceis, rectis vel curvulis, 3-5-guttulatis, hyalinis vel flavente-hyalinis, 6-9 × 1; paraphysibus filiformibus 0,5. μ. cr.

Hab. ad corticem arborum frondosarum in Minas Geraes, Sitio Brasiliæ — Ascomata demum membranacea, tenuissima, alba, hymenio destituta sæpissime inveniuntur.

13. **Helotium pezizoideum** Cooke Phil. Grev. XIX, p. 72. — Sparsum, 4495
sessile, cupulatum, demum planum, repandulum, disco aurantio-flavo; extus album v. pallidum; ascis tereti-clavatis, 70 × 7, octosporis, sporidiis fusoideis v. oblongo-fusoideis, rectis v. curvulis, 7-12 × 2; paraphysibus filiformibus.

Hab. in ligno emortuo, inter muscos, Waitaki Novæ Zelandiæ.

14. **Helotium amœnum** Fautrey Rev. Myc. 1891. p. 124. — Ascoma- 4496
tibus subsessilibus, copiosissimis, stipatis, albidis v. viridulis, disco plano-convexo, margine acuto; ascis clavatis, 80 × 10, 4-8-sporis; sporidiis subdistichis in asci apice sitis, fusoideis, continuis, curvulis, hyalinis, 4-guttatis, 13-15 × 3.

Hab. in Aspidio Filice-mare in silvis Côte-d'or Galliæ.

PHIALEA Fr. — Syll. VIII, p. 251.

1. **Phialea flexipes** (C. et Ph.) Sacc. *Hymenoscypha flexipes* Cooke 4497
et Phil. Grev. XIX, p. 106. — Sparsa v. cæspitosa, stipitata, piriformis dein infundibuliformis 1-2 mm. long., 0,5-1,5 mm. lat., margine integro, inflexo, extus granulosa, pallide alutacea, disco saturatiore; stipite longo, flexuoso; ascis anguste clavatis, 35 × 3, octosporis; sporidiis fusoideis, 4-6 × 1; paraphysibus filiformibus.

Hab. in ligno decorticato in Britannia? (in herb. Kew.)

2. **Phialea Delavayi** Pat. Rev. Myc. 1890, p. 136. — Ascomatibus 4498
orbicularibus, concavis, minutis, intus e brunneo subfulvis, extus pallidis, glabris; stipite brevi, rufo-pallido; ascis cylindraceis, 80 × 4-5, octosporis; sporidiis monostichis, ovoideis, utrinque obtusis, hyalinis, 6-7 × 2, 2-guttulatis; paraphysibus filiformibus.

Hab. gregatim in ligno putri, Yunnan Sinarum (DELAVAY). — Fungillus 2-3 mm. lat., 1-2 mm. altus; affinis *Ph. Scutulæ*.

3. **Phialea Carmichaelii** (Berk.) Sacc. *Hymenoscypha Carmichaelii*. 4499
Berk., Phil. Grev. XIX, p. 106, *Peziza* Berk. in herb.? — Sparsa v. cæspitosa, stipitata, demum plana, 1 mm. lat., margine emergente, integro; disco fuligineo; stipite longiusculo, 2 mm. longo, brunneolo, basi tomentoso; ascis clavatis, 8-sporis, 90 × 9; sporidiis fusoideis v. clavato-fusoideis, guttatis, 25 × 5; paraphysibus filiformibus, copiosis.

Hab. in ligno dejecto in Scotia (?) (CARMICHAEL). — Affinis *Ph. Scutulæ*.

4. **Phialea furfuripes** (Berk. et Curt.) Phil. Grev. XIX, p. 73 (*Peziza*) 4500
Berk. et Curt. in herb. Berk. — Cæspitosa v. solitaria, stipitata, cupulata, 1,5 mm. lat., 2 mm. alt. brunnea, glabra; stipite pilis fasciculatis brevibus consperso; ascis cylindraceis, basin versus attenuatis, 80 × 8, octosporis; sporidiis sphærico-ellipsoideis, 5-6 × 4; paraphysibus filiformibus.

Hab. in ligno putri, Venezuela (herb. BERKELEY). — *Phialea appendiculata* Oudem. Microm. nouv. I, p. 2. tab. II, f. 6-8 ad *Ciboriam ciliatosporam* videtur spectare.

5. **Phialea? coccinella** (Fr.) Sacc. *Peziza* Fr. S. M. II, p. 125, *Fungoides* etc. Mich. gen. p. 205. t. 86. f. 12. *P. nutans* Batsch, *P. cernua* Pers. — Tenuis, coccinea, cupulis infundibuliformibus, cernuis, stipite tenui longiusculo. 4501

Hab. ad ramenta in Italia media. — Cupula cernua, in variis observata, a loco pendet et vix nota huic propria. Videtur affinis *Ph. cyathoideæ*.

PEZIZELLA Fuck. — Syll. VIII, p. 275.

1. **Pezizella Clematidis** Fautrey in Rev. Myc. 1890, p. 161. — Per- 4502
exigua, rosea; ascis teretiusculis in stipitem attenuatis, 30-40 × 4,5; sporidiis elongatis, hyalinis, 2-guttatis, 6 × 1,5; paraphysibus ramosis.

Hab. in sarmentis Clematidis Vitalbæ pr. Noidan, Côte-d'Or Galliæ.

2. **Pezizella dilutelloides** Rehm in Hedw. 1891, p. 151. — Ascoma- 4503
tibus gregariis, sessilibus, primo globosis, clausis, demum patellatis, planis extus glabris, albo-flavidulis, siccis sæpe complicatis, plus minusve margine involutis, disco fusco-flavidulo, ceraceis, 0,5-2 mm. lat., parenchymatico-contextis; ascis cylindrico-clavatis,

apice rotundatis, jodo cærulescentibus, 60–70 ≃ 5, octosporis; sporidiis oblongis, rectis v. subcurvatis, continuis, hyalinis, 6-8 ≃ 1,5; paraphysibus filiformibus, hyalinis.

Hab. ad petiolos putridos Robiniæ Pseudacaciæ Lichterfelde pr. Berlin Germaniæ (Sydow).

CYATHICULA De Not. — Syll. VIII. p. 304.

1. **Cyathicula serrata** (Hoffm.) Sacc. *Peziza serrata* Hoffm. Crypt. II, p. 26, t. VII, f. 4, *Cistella* Quél. Ench. p. 320. — Ascomatibus globoso-cupularibus, substipitatis, minutis, tenuissime pubescentibus, albo-hyalinis, margine denticulato; disco carneo; sporidiis teretifusoideis. 4504

Hab. in lignis putrescentibus in Germania et Gallia. — Ascomata caput aciculæ æquantia.

ALLOPHYLARIA Karst. — Syll. VIII, p. 308.

1. **Allophylaria terrigena** Karst. in Rev. Mycol. 1889. — Ascomatibus sparsis, primitus obconice elongatis, demum stipitatis, lutescenti-pallidis, 0,2 mm. alt.; cupulis convexis, subimmarginatis, 0,1–0,2 mm. lat.; stipite breviusculo, sensim in cupulam dilatato; ascis clavatis, octosporis jodo vinose fulvescentibus, membrana crassa, obtusissimis, 67-75 ≃ 13–14; sporidiis subtristichis, oblongato vel elongato-subfusoideis, continuis, dein 1-septatis, eguttulatis, hyalinis, 12–17 ≃ 3-4; paraphysibus ascos vix superantibus, haud numerosis, laxe cohærentibus, filiformibus, ramosis, 0,5–1 μ. crassis. 4505

Hab. ad terram in Minas Geraes, Sitio Brasiliæ (D.r Edw. Wainio).

PEZICULA Tul. — Syll. VIII, p. 310.

1. **Pezicula acerina** (Fr.?) Karst. et Har. Rev. Myc. 1890 Oct. — Ascomatibus gregariis, in series lineares contiguis, per rimas corticis erumpentibus, sessilibus vel stipite brevissimo, crasso in cortice latente, planiusculis, subcoriaceis, humectatis mollioribus, circ. 1 mm. lat.; ascis 100 ≃ 20; sporidiis oblongatis, rectis, vulgo inæqualibus, endochromate granuloso, subhyalinis, continuis, 36–40 ≃ 10-12. 4506

Hab. ad ramos Aceris Pseudoplatani, Villebon Galliæ (Tulasne). — Specimina ita vetusta et obsoleta, ut definitionem meliorem dare non possimus. Fortasse sit *Cenangium? acerinum* Fr. Summa veg. Sueciæ p. 364, quod descriptum nullibi visum.

2. **Pezicula cinereo-fusca** (Schw.) Sacc. *Peziza* Schw., *Lachnella* Sacc. Syll. VIII, p. 399, *Velutaria* Voss Myc. Carn. III, p. 210. — Ascomatibus gregariis, sessilibus, globosis dein patellaribus, orbiculato-ellipsoideis, sæpe plicatis, margine incurvatis, ceraceis extus cinereis, farinaceis, 0,5-2,5 mm. diam., disco concavo, fusco; ascis cylindraceis, stipitatis, apice rotundatis, 8-sporis, 110-112 ≃ 9-10; sporidiis recte monostichis, late ellipsoideis, hyalinis, 1-nucleatis, 10-12 ≃ 8-9; paraphysibus ascos superantibus, clavula viridula 4 μ. cr. 4507

Hab. in ramis siccis Aceris, Berberidis, Carpini, Coryli, Cratægi, Pruni, Quercus, Rosæ, Cercidis in Carniolia et Tirolia cisalpina. — Ob sporidia continua meo sensu non *Valsariæ* species.

3. **Pezicula guttiformis** Speg. F. Puigg. n. 387. — Ascomatibus gregariis vel sparsis, lenticularibus, 180-250 μ. diam., disco coccineo, extus pallidioribus non vel vix subpruinulosis; ascis clavulatis, paraphysatis, 50 ≃ 8, octosporis; sporidiis ellipsoideis hyalinis, oblique monostichis vel distichis, 10 ≃ 4. 4508

Hab. ad folia viva Galii speciei cujusdam prope Apiahy Brasiliæ. — Iodi ops nulla. Inter ascomata subiculum mucedineum tenuissimum heterogeneum (*Aspergilli* cujusdam?) sæpe adest!

CHLOROSPLENIUM Fr. — Syll. VIII, p. 315.

1. **Chlorosplenium tuberosum** Karst. et Har. Rev. Myc. 1890 Oct. — Ascomatibus e tubere communi per corticem erumpente, crasso circ. 2-3 mm., ærugineo-atro, difformi enatis, sessilibus vel breviter stipitatis, concavis, obtuse marginatis, disco e cellulis filiformibus, simplicibus, raro ramosis dilutissime ferrugineis (paraphysibus?) composito; ascis..... 4509

Hab. ad Caput Horn ins. L'Hermite (P. Hariot). — Lignum, cui innascitur, colore ærugineo tingit.

MOLLISIA Fr. — Syll. VIII, p. 321.

1. **Mollisia Knautiæ** Briard et Hariot Rev. Myc. 1890 Oct. — Ascomatibus erumpentibus, carnosulis v. ceraceis, brunneis, patellaribus, sessilibus, leniter depressis vel subplanis, 1 mm. diam.; ascis cylindraceis, breviter stipitatis vel sessilibus, octosporis, 56-60 ≃ 8; paraphysibus filiformibus; sporidiis monostichis, oblique piriformibus, basim versus attenuatis, hyalinis, 1-2-guttulatis, 12 ≃ 5-6. 4510

Hab. in caulibus emortuis Knautiæ longifoliæ pr. Chermont-Ferrand Galliæ (Frère Héribaud).

2. **Mollisia Adenostylidis** Rehm Disc. p. 526. — Ascomatibus gregariis, late sessilibus, dein applanato-patelliformibus, extus brunneis, siccis incurvis, 0,2-1,5 mm. lat., ceraceo-mollibus; disco sæpe arcuato, e griseo-cœrulescente brunneo-violaceo, tenuiter marginato; contextu e cellulis rotundis constituto, brunneo; ascis clavatis, supra rotundatis, 45-50 = 5; sporidiis octonis, distichis, anguste fusoideis, acutiusculis, rectis v. subincurvis, 9-12 = 1,5; paraphysibus filiformibus, ascos subsuperantibus, hyalinis, usque ad 2,5 μ. lat. 4511

Hab. in caulibus siccis Adenostylidis alpinæ et albifrontis, Bauernalpkopf in Algäu (Britzelmayr).

3. **Mollisia hamulata** Rehm Disc. p. 534. — Ascomatibus plerumque sparsis, dein cyathiformibus, tandem applanato-patelliformibus, extus levibus, flavidis v. pallide carneis, siccis profunde patelliformibus et arcuatis, carneo-rubentibus v. vitellinis, margine pallidiore 0,3-1,2 mm. lat., coriaceo-mollibus; disco demum subconvexo, margine pallidiore e tenui; contextu minute parenchymatico, hyalino; ascis clavatis, supra obtuse acuminatis et incrassatis, 60-80 = 8-9; sporidiis octonis, oblique distichis, fusoideis, rectis v. subincurvis, 2-guttatis, 12-15 = 3; paraphysibus filiformibus, 1,5 μ. lat., septatis, supra piriformibus, hyalinis. 4512

Hab. ad caules Cirsii spinosissimi et Aconiti Napelli pr. Taschach-Gletscher, Tiroliæ (Pitzthal) et Senecionis Jacquini prope St.-Moritz in Engadin (Winter).

4. **Mollisia oxyparaphysata** Rehm Disc. p. 535. — Ascomatibus gregariis, basi angustatis, dein cyathiformibus, demum applanato-patelliformibus, extus brunneolis, subasperis, siccis involutis, saturate rubenti-brunneis, subrugosis, 0,2-0,4 mm. lat., ceraceo-mollibus; disco demum convexo, pallide brunneolo-flavo, margine brunneolo et fibrilloso; contextu minute parenchymatico, brunneo, margine fibrillis brunneis, septatis, obtusis, usque ad 50 μ. long., 4 μ. lat. instructis; ascis clavatis, supra rotundatis, 35-45 = 5-6; sporidiis octonis, distichis, elongato-clavatis vel fusoideis, rectis vel subincurvis, 7-10 = 2; paraphysibus partim lanceolato-acutis, 4-5 μ. lat., partim filiformibus, 2 μ. lat., demum ascos longe superantibus, hyalinis. 4513

Hab. ad caules siccos Compositarum, Schlappolt-Eck in Algäu (Britzelmayr).

5. **Mollisia Cynoglossi** Oud. Contr. Mycol. XIII, p. 23, t. 8, f. 5. — 4514

Sparsa vel plus minus aggregata, diu infra epidermidem occultata, postremo per ejus fissuras erumpens, humectata $^1/_3$-1 mm. diam., breve crasseque stipitata, mollis, orbicularis, extus glaberrima, nigra, siccitate spurie bivalvis v. varie sinuata; hymenio humecto plumbeo, arescendo pallide carneo atque subtilissime papilloso; contextu filamentoso; ascis clavatis, 50-60 ≈ 6,5; paraphysibus numerosissimis, filiformibus; sporidiis octonis, subtus monostichis, supra distichis, oblongis, rectis v. curvulis, 11-14 ≈ 2,5-3, eguttatis.

Hab. in caulibus siccis Cynoglossi officinalis, Loosduinen Nederlandiæ (Domina Destrée).

6. **Mollisia complicatula** Rehm Disc. p. 520. — Ascomatibus gregariis, erumpentibus, sessilibus vel subtus attenuatis, primo globoso-clausis, dein cyathiformibus, extus brunneis, asperis, siccis convolutis et minute rugosis, atro-brunneis, 0,3-1 mm. lat., ceraceo-mollibus; disco albo-griseo, margine minute fibrilloso; contextu margine fibrilloso-parenchymatico et saturatius colorato, basi parenchymatico, brunneo et hyphis cæspitosis, subramosis, brevibus, brunneis, 3-4 μ. lat. prædito; ascis globosis, supra obtuse acuminatis, 8-sporis, 60-65 ≈ 6-7; sporidiis distichis, elongato-fusoideis, obtusiusculis, rectis, utrinque 1-guttatis, 9-12 ≈ 2,5; paraphysibus ramosis, circ. 2 μ. lat. 4515

Hab. in ramis siccis Loniceræ cæruleæ, Oetzthal supra Vent Tiroliæ. — *M. complicatæ* et *M. Myricariæ* affinis.

7. **Mollisia encœlioides** Rehm Disc. p. 522. — Ascomatibus gregariis, basi subangustatis, primo globoso-clausis, dein applanato-patelliformibus, extus pallide brunneolo-flavidis, levibus, siccis plerumque plicatis et contortis, extus brunneolis et subasperis, 0,3-1,2 mm. lat. ceraceo-mollibus; disco dein arcuato, pallide alutaceo, margine tenui, plerumque subsaturatius colorato; contextu parenchymatico, brunneolo, marginem versus cellulis elongatis prædito; ascis clavatis, supra rotundatis, 8-sporis, 30-35 ≈ 5; sporidiis distichis, cylindraceis, rectis v. subcurvis, 5-6 ≈ 1,5; paraphysibus filiformibus, 2,5 μ. lat., supra usque ad 5 μ. incrassatis, dilute brunneolis. 4516

Hab. in ramulis decorticatis Salicis capreæ pr. Königstein (Krieger). — Habitus *M. complicatæ* et *M. Myricariæ*.

8. **Mollisia chlorosticta** E. P. Fries in Grev. XIX, p. 107. — Sparsa v. gregaria, minuta, cupulata, sessilis, glabra, flavo-virens, margine prominente integro v. subflexuoso, concolore; ascis clavatis 30-45 ≈ 6-8, 8-sporis; sporidiis oblongis 2-3 ≈ 1; paraphysibus filiformibus. 5417

Hab. in cortice interiore Ulmi montanæ et Aceris, Upsala Sueciæ (E. P. Fries et L. Romell).

9. **Mollisia cinerescens** Rehm Disc. p. 518. — Ascomatibus gregariis, dein rotundato-patelliformibus, demum applanato-expansis, levibus, sicco convexis et albo-flavidis, 0,1-1,5 mm. lat., tenuissimis, ceraceo-mollibus; disco margine minute et pluries inciso, albido-cinereo; contextu minute parenchymatico, basi subbrunneolo; ascis clavatis, supra obtuse acuminatis, 45-60 × 8-9, octosporis; paraphysibus filiformibus, supra septatis et usque ad 3 μ. lat., hyalinis; sporidiis distichis, elongato-cylindraceis, obtusis, rectis v. subincurvatis, 15-18 × 2,5. 4518

Hab. in ligno pineo, Coerhaide pr. Münster (v. Tavel).

10. **Mollisia crumenuloides** Rehm Disc. p. 521. — Ascomatibus gregariis, primo globoso-clausis, dein applanato-patelliformibus, extus brunneis, levibus, siccis involutis et convexis, subinde tenuiter albido-marginatis, nigro-brunneis, asperis, 0,2-1 mm. lat. ceraceo-mollibus; disco albido-luteolo, margine tenui et inciso; contextu basi parenchymatico, brunneo, margine tenuiter fibrilloso. 4519

Hab. in cortice abietino in silva prope Sugenheim in Franconia et ad Coerhaide pr. Münster (v. Tavel). — *M. complicatæ* affinis.

11. **Mollisia trabincola** Rehm Disc. p. 521. — Ascomatibus minute gregariis, maculis decoloratis insidentibus, primo globoso-clausis, dein rotundato-cyathiformibus, extus nigrescenti-brunneis, levibus, siccis brunneo-nigris, incurvatis subinde hysterioideo-involutis et minute rugosis, 0,3-0,4 mm. long. v. lat., ceraceo-mollibus; disco dein subplano, nigro-griseo, tenuiter subinciso-marginato; contextu parenchymatico, brunneo, margine cellulis elongatis prædito; ascis clavatis, supra rotundatis, 36-45 × 6-8, octosporis; sporidiis distichis, ellipsoideis, obtusis, rectis v. subincurvis, 5-8 × 3; paraphysibus filiformibus, supra usque ad 3 μ. lat., hyalinis. 4520

Hab. in ligno Pini Cembræ inter Gomagoi et Sulden ad Ortler Tiroliæ et ligno decorticato Coniferæ cujusdam, Neuchâtel Helvetiæ.

12. **Mollisia crassa** Boud. in Har. Champ. Cap Horn p. 193. — Minuta, sessilis $^1/_2$ mm. cr., pallida, extus fuliginea; cupulis axplanatis v. undulatis, spissis, sæpe umbilicatis; ascis clavatis, 120-130 × 10, hyalinis, 8-sporis; paraphysibus linearibus, sæpe divisis; sporidiis fusoideo-elongatis, subclavatis et sæpe curvulis, intus granulosis, 18-20 × 3-4. 4521

Hab. in ligno putri, in sinu Saint-Martin Patagoniæ austr. (Hariot).

13. **Mollisia Passerinii** Sacc. *Mollisia juncina* Pass. in Brun. Mat. Myc. Saint. p. 16, nec Rehm. — Ascomatibus erumpentibus, sparsis, minutis, demum liberis, discoideis, brunneis, disco plano; margine non vel vix prominulo; ascis clavatis, basi tenuatis, octosporis, 65-70 × 18-20, jodo cœrulescentibus; paraphysibus filiformibus, apice brunneolis; sporidiis di-tristichis vel inordinatis, oblongo-ovoideis, continuis, hyalinis, utrinque guttulatis, 18-20 ≃ 4-5. 4522

Hab. in calamis exsiccatis Junci conglomerati, Rochefort Galliæ. — Affinis *M. juncisedæ.*

14. **Mollisia caricina** Fautrey Rev. Myc. 1891, p. 124. — Ascomatibus perexiguis, copiosis, albis, margine involutis, dein expansis, disco griseo; ascis teretibus 20-25 ≃ 4-5; sporidiis cylindraceis, curvulis, 4-6 ≃ 1. 4523

Hab. in Carice hirta, Noidan Côte-d'Or Galliæ.

15. **Mollisia poëoides** Rehm Disc. p. 544. — Ascomatibus gregariis, primo immersis, dein cyathiformibus, demum applanato-patelliformibus, extus brunneis, levibus, siccis convexis, subrugosis, brunneis v. nigro-brunneis, 0,2-0,4 mm., ceraceo-mollibus, disco pallide griseo, margine tenui et saturatius colorato; contextu parenchymatico, brunneo; ascis clavatis, supra obtuse acuminatis, 8-sporis, 40-50 × 6-8; sporidiis distichis, fusoideis, rectis v. subincurvis, minute guttulatis, 7-10 ≃ 2-2,5; paraphysibus filiformibus, supra 2,5 μ. lat., hyalinis. 4524

Hab. ad culmos et folia Graminacearum Tiroliæ et Psammæ arenariæ in Grunewald prope Berlin (Sydow). — Habitus *Mollisiæ Poæ.*

16. **Mollisia hiemalis** Rehm Disc. p. 544. — Ascomatibus plerumque sparsis, dein cyathiformibus, extus olivaceo-brunneis, levibus, siccis involutis et margine tenuiter albido-fibrillosis, extus brunneis vel brunneo-viridibus, 0,1-0,4 mm. lat., molliter ceraceis; disco margine tenui, griseo; contextu parenchymatico, brunneolo, marginem versum cellulis subhyalinis valde elongatis prædito; ascis clavatis, supra rotundatis, 36-40 ≃ 4; sporidiis filiformibus, rectis vel subincurvatis, 6-8 ≃ 1; paraphysibus filiformibus, hyalinis, 1,5 μ. lat. 4525

Hab. ad culmos Graminacearum supra Grampenhöfe, Ortler Tiroliæ. — Habitus *Pyrenopezizæ Karstenii.*

17. **Mollisia leucosphæria** Rehm Disc. p. 545. — Ascomatibus gre- 4426

gariis, dein applanato-patelliformibus, extus brunneolis, siccis subglobosis et brunneis, levibus, 0,1-0,25 mm. lat., molliter ceraceis; disco pallide griseo, margine tenui et subinde albido; contextu parenchymatico, brunneo; ascis clavatis, supra rotundatis, 8-sporis, 36-40 ≈ 4-5; sporidiis oblique distichis, linearibus, rectis v. subincurvis, 6-8 ≈ 1,5; paraphysibus filiformibus, paucis, 1 μ. lat., hyalinis.

Hab. ad culmos Graminacearum ad Sulden-Gletscher, Ortler Tiroliæ.

18. **Mollisia dactyligluma** Cooke Grev. XIX, p. 86. — Ascomatibus 4527
molliusculis, carnosulis, concavis dein applanatis, 0,2-0,5 mm. diam., albis, cinereis vel lividis, margine pallidioribus, sessilibus, levibus; ascis cylindraceis; sporidiis teretibus, utrinque rotundatis, subrectis, hyalinis, 10 ≈ 1,5.

Hab. in glumis Dactylidis glomeratæ, Lynn Britanniæ.

PYRENOPEZIZA Fuck. — Syll. VIII, p. 354.

1. **Pyrenopeziza atrata** (Pers.) Fuck. — Syll. VIII, p. 354 — f. **macrospora** Fautrey Rev. Myc. Oct. 1891. — Ascomatibus in pilis matricis sæpius latentibus, typo similibus; sporidiis majoribus, 13 ≈ 3. 4528

Hab. in caulibus siccis Verbasci Thapsi in silva Charny, Côte-d'Or Galliæ.

2. **Pyrenopeziza obtrita** (Pers.) Sacc. *Peziza* Pers. M. E. I, p. 308, *Mollisia* Quél. XI Suppl. pag. 22, t. XII, f. 11, vix *Phacidium fimbriferum* Fr. (Syll. VIII, p. 719). — Ascomatibus urceolatis, 0,2-0,3 mm. lat., ceraceis, diaphanis, puberulis, crenulatis, atroviridibus; hymenio concavo, fuligineo v. olivaceo; sporidiis cuneiformibus, 6 μ. long., hyalinis. 4529

Hab. gregaria in caulibus plantarum majorum, e. g. Angelicæ in Gallia. — Sec. Pers. loc. cit.: sparsa, tenuis, orbicularis, depressa, nigra, exsiccata crispa, irrigata distincte pezizoidea.

3. **Pyrenopeziza yogoensis** (E. et G.) Sacc. *Peziza yogoensis* Ell. et Gall. Journ. Myc. 1889, p. 65. — Erumpens, fibroso-contexta. 200 μ. diam., margine fimbriato et incurvo, olivaceo, disco pallido; ascis oblongis, 50-60 ≈ 15-18, sessilibus, paraphysibus obtusis ascos subæquantibus, parcis; sporidiis obliquis vel distichis, oblongis, rectis, hic rotundatis, hinc leniter acutatis, 2-nucleatis, hyalinis, 13-15 ≈ 4-5. 4530

Hab. in foliis emortuis Caricis, Yogo Montana Amer. bor. (Williamson).

TAPESIA Pers. — Syll. VIII, p. 371.

1. **Tapesia undulata** Bomm. Rouss. Sacc. Contr. Myc. Belg. IV, p. 17. 4531
—Ascomatibus aggregatis, albo-cinereis v. flavido-tinctis, dein fulvis, demum nigricantibus, subiculo pannoso, brunneo-flamentoso, sæpius parco insidentibus; disco pruinoso, concavo dein convexo-plano, margine distincto, pallidiore, undulato-inflexo, ob hyphas myceli-cas albidas ambientes simulate villoso; ascis cylindraceo-clavatis, subsessilibus, 36–48 ≃ 5–6; sporidiis distichis, lanceolatis, rectis, hyalinis, 6-7 ≃ 1,5; paraphysibus linearibus, continuis, granulosis ascos æquantibus.

Hab. in ramulis emortuis Myricæ Gales, Westmalle Belgii. — *Moll. Riccieæ* subaffinis.

2. **Tapesia melaleucoides** Rehm Disc. p. 578. — Ascomatibus gregariis, subiculo effuso, pannoso, ex hyphis ramulosis, brunneis, 4–5 μ. lat., prope ascomatum basin subinde hyalinis efformato, insidentibus, primo globosis, clausis, dein apertis, cyathiformibus, subtus subangustatis, extus brunneis, levibus, siccis margine involuto, atrobrunneis, subasperis, 0,3–0,4 mm. lat., molliter ceraceis; disco margine crasso et brunneo, demum subdilatato, stellatim v. irregulariter contorto, flavo-albido, sicco sordide albo; contextu parenchymatico, brunneo, margine cellulis elongato-fibrosis prædito; ascis clavatis, obtusis, supra rotundatis, 8-sporis, 45–50 ≃ 5–6; sporidiis submonostichis elongatis, obtusis, rectis vel subincurvis 7–9 ≃ 2,5–3; paraphysibus paucis, filiformibus, 2,5 μ. lat., hyalinis. 4532

Hab. ad ramos Coryli Avellanæ, Pini Cembræ, Rosæ, Rhododendri ferruginei, Rubi fruticosi et Callunæ ad radices arborum pr. Augsburg, Franken, Ortler et Waldrast Tiroliæ, Borussia rhenana, Arlberg, Lohr et Königstein.

3. **Tapesia toruloides** Rehm Disc. p. 583. — Ascomatibus gregariis, subiculo nigro vel nigro-brunneo, expanso, ex hyphis longis, septatis, plerumque simplicibus brunneis, circ. 5 μ. cr. efformato, insidentibus, primo globosis, clausis, dein apertis, subpatelliformibus, extus levibus, basin versus brunneis, siccis subinvolutis et arcuatis, 0,2–1 mm. lat., ceraceis; contextu parenchymatico, brunneo; disco applanato, tenuiter marginato, subniveo; ascis clavatis supra obtuse acuminatis, 75–90 ≃ 9–10; paraphysibus ramosis, 2 μ. lat., hyalinis; sporidiis octonis, distichis, fusoideis, rectis v. subcurvatis, crasse 2-6-guttatis, 15-24 ≃ 4-5. 4533

Hab. in ramulis siccis Syringæ vulgaris pr. Herculesbad, Siebenbürgen.

4. **Tapesia pseudosanguinea** (Rehm) Sacc., *Patellea* Rehm Disc. p. 284. 4534
— Ascomatibus plerumque dense gregariis, subiculo purpureo, ex hyphis circ. 4 μ. lat. formato, impositis, primo globosis, clausis, subtus turbinatis, usque ad 0,4 mm. long., dein cyathiformibus, tandem applanato-patelliformibus, tenuiter et pallidius marginatis, discum initio atro-griseum, demum nigrum, opacum aperientibus, 0,2-0,8 mm. lat., siccis corrugatis, membranaceis; contextu tenuiter prosenchymatico, brunneolo; ascis clavatis, supra rotundatis, 30-35 ≃ 6, octosporis; sporidiis ovoideis, 3 ≃ 2,5, distichis; paraphysibus filiformibus, hyalinis, circ. 1,5 μ. lat., supra parum dilatatis.

Hab. in trunco decorticato Betulæ, Coerhaide prope Münster Germaniæ (von Tavel). — Habitus *T. sanguineæ*.

5. **Tapesia Rehmiana** Sacc. Bomm. Rouss. Contr. Myc. Belg. II, p. 3. 4535
— Sessilis, sparsa vel plus minus gregaria, subiculo crasso, e filamentis dematiaceis, erectis formato, imposita; cupulis minutissimis, 175-226 μ. lat., olivaceis, pilosis, pilis brevibus, concoloribus, discum olivaceo-lividum, vix concavum, pallidius leniter superantibus; ascis subsessilibus, 29-36 ≃ 5-6, anguste clavatis, 8-sporis; paraphysibus simplicibus, filiformibus, ascos æquantibus v. paullo excedentibus; sporidiis oblique monostichis, ellipsoideis, sæpe subcurvulis, utrinque 1-guttatis.

Hab. ad Quercum putrem decorticatam, Boitsfort Belgii.

PIROTTÆA Sacc. — Syll. VIII, p. 386.

1. **Pirottæa microspora** Bomm. Rouss. Sacc. Contr. Myc. Belg. IV, 4536
p. 18. — Ascomatibus dense gregatis, sessilibus, subhemisphæricis, concavis, ob pressionem sæpe undulatis, atro viridi-fuligineis, 0,3-0,5 mm. diam., extus sericeo-flocculosis, margine subcinereo, dein virente, cellulis excipuli marginalibus in pilos 4-cellulares, 60-90 ≃ 5 abeuntibus; disco fuligineo; ascis clavatis vel oblongis, sessilibus, 24-27 ≃ 6, octosporis; sporidiis cylindraceo-ellipsoideis, oblique 1-stichis, 2-guttatis, 4-6 ≃ 2,5-3.

Hab. in fragmentis ligneis Fagi silvaticæ, Groenendael Belgii. — Ob ascomata confertissima habitus speciei fere dematieus.

LACHNELLA Fr. — Syll. VIII, p. 391.

1. **Lachnella? pruinosa** (Ces.) Sacc., *Cenangium* Ces. Hedw. I, p. 43, 4537
t. VIII, f. 1. — Cupulis e corticis rimis erumpentibus seu sub epi-

dermide nidulantibus, interdum petiolorum cicatricibus, hinc sub ramulorum basi, impositis, diu clausis, velo flocculoso, albido obtectis, serius turbinatis, discum virentem, mox brunneum, dein nigrescentem, postremo ex ascis erumpentibus albo-pruinosum revelantibus et tunc sat explanatis; hymenio sat tenui; ascis tenuibus, linearibus, cito evanescentibus; paraphysibus numerosis, filiformibus, apice paullisper incrassatis; sporidiis monostichis, ovalibus, coloratis, centro guttuleris, fere nudis, concatenatis.

Hab. ad caules annotinos exsiccatos Hyperici perforati, Vercelli Ital. bor. (Cesati).

2. **Lachnella Juniperi** Rich. Cat. Champ. Marn. n. 988 (nomen). 4538

Hab. in ramis Juniperi communis in silva Aulnay-l'Aître, Marne Galliæ.

3. **Lachnella nilgherrensis** Cooke Grev. XIX, p. 73. — Sparsa, minuta, sessilis vel subsessilis, patelliformis, 0,5 mm. lata, extus alba, pilis tenuibus, brevibus, septatis, hyalinis conspersa; disco albido-flavo; ascis lineari-fusoideis, 70-80 ≃ 6, octosporis; sporidiis linearibus, acutis, rectis vel curvulis, 26-35 ≃ 3, 3-5-pseudo-septatis; paraphysibus filiformibus. 4539

Hab. in caulibus herbaceis in India orient. (herb. Berkeley).

TRICHOPEZIZA Fuck. — Syll. VIII, p. 401.

1. **Trichopeziza Sphærula** Sacc. in Hedw. 1890, p. 155. — Ascomatibus sparsis, minutis, vix $^1/_2$ mm. diam., sessilibus, globulosis, vertice ægre minuteque dehiscentibus, amœne citrino-sulphureis, pilis divergentibus, asperulis, clavulatis, simplicibus conspersis; ascis cylindraceis breve stipitatis apice obtusulis, 80-98 ≃ 6-7,5, octosporis; sporidiis oblique monostichis ellipsoideo-oblongis, utrinque rotundatis, 10 ≃ 3,5, biguttatis, hyalinis; paraphysibus filiformibus. 4540

Hab. in cortice emortuo Casuarinæ, Williamstown S. Australiæ. — *T. chrysotrichæ*, ut videtur, affinis.

2. **Trichopeziza perpusilla** Sacc. Bomm. Rouss. Contr. Myc. Belg. III, p. 4 (*Peziza*). — Ascomatibus gregariis, minusculis, $^1/_{10}$-$^1/_8$ mm. diam., sessilibus, primo clausis, dein apertis, griseolo-albis, margine pallidioribus, extus velutinis, filamentis dematioideis insidentibus; ascis clavatis, 24-30 ≃ 5-7; sporidiis distichis, rectis, hyalinis, 5-6 ≃ 1-2; paraphysibus asco longioribus, gracilibus, hyalinis. 4541

Hab. ad caules emortuos Epilobii hirsuti, Groenendael Belgii.

3. **Trichopeziza asema** (Phill.) Sacc. *Lachnella asema* Phil. Grev. 4542

XIX, p. 73. — Sparsa, minuta, sessilis, globosa, dein expansa patelliformis, alba v. sordide alba, pilis brevibus, hyalinis, obtusis, septatis (per lentem vix visibilibus) conspersa; ascis late clavatis, acutis v. obtusis, 40 × 7, octosporis; sporidiis fusoideis v. clavatis, 10 × 3; paraphysibus filiformibus.

Hab. in foliis emortuis Caricis, Berrington Salop Britanniæ. — Cupulæ 300 μ. diam.

DASYSCYPHA (Fr.) Fuck. — Syll. VIII, p. 432.

1. **Dasyscypha hispanica** (C. et Ph.) Sacc. *Lachnella hispanica* Cooke et Phil. Grev. XIX, p. 73. — Sparsa, stipitata, cupulata, alba, pilis longis, flexuosis, hyalinis, subinde nodulos oxalati calcici gerentibus conspersa; disco pallide flavo; ascis tereti-clavatis, octosporis; sporidiis anguste fusoideis 10-13 × 2-2,5; paraphysibus aciculatibus, asci latitudinem æquantibus sed longioribus. 4543

Hab. in caule emortuo Rumicis suffruticosi, Pico de Cancellas Hispaniæ. — Ab affini *L. patula* differt sporidiis et paraphysibus crassioribus.

2. **Dasyscypha Morthieri** (Cooke) Sacc. *Lachnella Morthieri* Cooke Grev. XIX, p. 73. — Sparsa, stipitata, urceolata dein cupulata, pallide flava, pilis brevibus, septatis, hyalinis capitulatis conspersa; ascis clavatis, 25-30 × 3, octosporis; sporidiis fusoideis 5 × 1; paraphysibus non visis. 4544

Hab. in caule emortuo Senecionis Fuchsii in Helvetia (Morthier). — Cupula 300 μ. lata, stipes 150 μ. long.

3. **Dasyscypha conformis** (Cooke) Sacc. *Lachnella conformis* Cooke Grev. XIX, p. 107. — Sparsa, minuta, breviter stipitata v. sessilis, subcupulata, dein plana, pilis brevibus, hyalinis, obtusis conspersa; disco pallide cervino; ascis cylindraceo-clavatis, octosporis; sporidiis anguste lanceolatis, 10 × 1; paraphysibus acicularibus ascos excedentibus. 4545

Hab. in Juncis, Darenth Britanniæ. — Ab affini *L. hapala* differt sporidiis multo brevioribus. — *Das. luzulina* (Phill.) Sacc. ex sphalmate typi in Syll. VIII, sub nomine *D. hyalinæ* occurrit, quod corrigendum.

4. **Dasyscypha stigmella** (Cooke) Sacc. *Lachnella stigmella* Cooke Grev. XIX, p. 86. — Ascomate breve stipitato, albo v. pallide carneo, pilis tenuibus flexuosis consperso, 0,1 mm. diam., disco concolore; ascis cylindraceis; sporidiis teretiusculis, 8-10 × 1; paraphysibus fusoideis. 4546

Hab. in Juncis, Norfolk Britanniæ.

5. **Dasyscypha Emerici** (Berk. et Phill.) Sacc. *Lachnella Emerici* 4547
Berk. et Phil. Grev. XIX, p. 74. — Sparsa, stipitata v. turbinato-stipitata, brunnea v. rufa, cupulata, 1 mm. diam., pilis longis, flexuosis, brunneis, sæpe capitellatis, asperulis conspersa; ascis tereti-clavatis, 60 × 4, octosporis; sporidiis lineari-fusoideis, rectis, 18-25 × 2, pseudo-1-septatis, hyalinis; paraphysibus acicularibus ascos excedentibus.

Hab. in ramis Neilgherries Indiæ or. (Herb. Berkeley).

6. **Dasyscypha gallica** (Karst. et Har.) Sacc., *Lachnella gallica* 4548
Karst. et Har. Rev. Myc. 1890, Oct. — Ascomatibus sparsis stipitatis, albo-villosis; cupula expansa, sicca, concava, disco aurantiaco-luteo, 2-3 mm. lat.; stipite brevi in cupulam dilatato; ascis cylindraceo-clavatis, iodo non cœrulescentibus, 95-110 × 9-10, octosporis; sporidiis monostichis, late ellipsoideis, eguttulatis, 10-12 × 6-7; paraphysibus filiformibus, sursum vix vel leniter incrassatulis, 1-1,5 μ. cr.

Hab. in ramis siccis arborum acerosarum, in Arvernia Galliæ (Héribaud). — Ab affini *D. Abietis* sporidiis latioribus, eguttulatis statim dignoscenda.

7. **Dasyscypha brachytricha** (C. et Ph.) Sacc. *Lachnella brachytricha* 4549
Cooke et Phil. Grev. XIX, p. 73. — Sparsa, stipitata, 0,5–1 mm. lat., primitus fere clausa, dein expansa cupulata, pallide brunnea, pilis brevissimis subinde inæqualiter inflatis conspersa; stipite in cupulam dilatato, sæpe curvo 0,5–1 mm. long.; ascis cylindraceis vel clavatis subinde inæqualiter ventricosis octosporis; sporidiis tereti-fusoideis, 10–13 × 2; paraphysibus filiformibus.

Hab. in ramis decorticatis (in Britannia?).

8. **Dasyscypha albo-pileata** (Cooke) Sacc. Syll. VIII, pag. 445. — 4550
Var. **subaurata** Ellis in Grev. XIX, p. 107. — A typo differt pilis apice succum flavum in globulum abeuntem scatentibus, sporidiis 5-6 × 1 (nec 6-8 × 1,5).

Hab. in utraque pag. foliorum Clethræ alnifoliæ, Newfield N. J. Amer. bor. (Ellis).

9. **Dasyscypha Patena** (Lév.) Sacc. *Peziza* Lév. Fungi Novo-Gran. 4551
p. 9. — Ascomatibus gregariis, pateniformibus, albo-tomentosis, stipite crasso, albo-tomentoso, vix 1 mm. cr. præditis, margine obtusis; disco levi, fulvo-aurantiaco; ascis fusiformi-clavatis, 8-sporis; paraphysibus filiformibus, simplicibus, continuis; sporidiis lineari-acicularibus, longissimis, continuis, hyalinis.

Hab. ad cortices, in Tequendama et Canoas Novæ Granatæ.

10. **Dasyscypha Hippocastani** Rich. Cat. Champ. Marn n. 985 (nomen). 4552
Hab. in facie interiore pericarpii Æsculi Hippocastani dejecti in silva St.-Lumier-en-Champagne, Marne Galliæ.

BIATORELLA De Not. in Giorn. bot. it. 1846, pag. 192, Rehm Disc. p. 303. Ita nominandum posterius genus *Tromera* Mass. (1858). — Syll. VIII, p. 469. — Cl. Rehm. l. c. sequentes species enumerat, Syllogi deficientes, a plerisque auctoribus Lichenibus adscriptas.

a) Ligni-truncicolæ.

1. **Biatorella pinicola** (Mass.) Th. Fr. Lich. Arct. p. 200, Rehm Disc. 4553
p. 303, *Sarcogyne* Mass. — Ascomatibus pallide brunneis, 0,2-0,5 mm. diam.; ascis (ut omnium specierum) polysporis, 50-60 ≃ 21-24; sporidiis sphæricis 3 μ. diam.; paraphysibus supra dilute brunneis.
Hab. in cortice Pinorum in Italia, Germania, Helvetia.

2. **Biatorella delitescens** Arnold Flora 1876, pag. 566, Rehm Disc. 4554
p. 301. — Ascomatibus flavido-viridulis v. brunneolis, 0,2-0,7 mm. diam.; ascis 45-50 ≃ 21-24; sporidiis globosis 3-4. μ. diam.
Hab. in truncis Ulmi in Bavaria. — Ascomata in areis dealbatis sessilia.

3. **Biatorella moriformis** (Ach.) Th. Fr. Lich. Scand. p. 401, Rehm. 4555
Disc. p. 305, *Arthonia* Ach. — Ascomatibus nitide brunneo-nigricantibus, 0,4-0,6 mm. diam.; ascis 45 ≃ 15-18; sporidiis sphæricis, 3 μ. diam.; paraphysibus supra smaragdinis.
Hab. in truncis decorticatis Pinorum in Silesia et Guestphalia. — Var. **improvisa** (Nyl.) Rehm. l. c. paraphysibus viridi-brunneolis. — Cum typo.

b) Terri-rupicolæ, raro lignicolæ.

4. **Biatorella geophana** (Nyl.) Rehm Disc. p. 307, *Agyrium sexdecimsporum* Fuck., Sacc. Syll. VIII, p. 636.

5. **Biatorella campestris** (Fr.) Th. Fr. Lich. Scand. p. 398, Rehm 4556
Disc. p. 308, *Biatora* Fr. — Ascomatibus carneo-rubentibus, 0,2-0,4 mm. diam.; ascis 90-120 ≃ 15-18; sporidiis ellipsoideo-oblongis, 7-8 ≃ 3; paraphysibus subhyalinis (etiam apice).
Hab. ad Muscos et Nostoc ad terram et in ligno Pini Cembræ in Germania, Helvetia.

6. **Biatorella germanica** Mass. Flora 1858, pag. 507, Rehm Disc. 4557
p. 309. — Ascomatibus brunneo-rubellis, 0,2-1 mm. diam.; ascis

70-75-15 ≃ 18; sporidiis globosis, 3 μ. diam.; paraphysibus subhyalinis (etiam apice).

Hab. in rupibus calcareis Jura Franconiæ (Arnold).

7. **Biatorella fossarum** (Duf.) Rehm Disc. p. 310. *Lecidea* Duf. in Fr. Lich. europ. p. 264. — Ascomatibus croceis v. cinnabarino-brunneis, 0,3-1 mm. diam.; ascis 70-90 ≃ 20-25; sporidiis oblongo-cylindraceis, 6-8 ≃ 3-4; paraphysibus supra sæpe luteolis. 4558

Hab. in rupibus et muscis in Franconia, Guestphalia, Algeria. — Var. **hemisphærica** Anzi Cat. Lich. Sondr. p. 78, Rehm l. c.: ascomatibus hemisphæricis, atro-rubris. Ad terram et muscos in Germania, Helvetia, Italia.

Sect. 2. Phæosporæ.

PHÆOPEZIA Sacc. — Syll. VIII, p. 471.

1. **Phæopezia orientalis** Pat. Journ. Bot. 1890, p. 59. — Cupuliformis, glabra, tenuis, 2 cm. diam., demum expansa, fulvo-brunnea; margine integro; ascis clavatis, 160 ≃ 20, octosporis; sporidiis monostichis exacte ovoideis 20 ≃ 10, levibus, crasse tunicatis, eguttatis, hyalinis dein rufis. 4559

Hab. in fimo vaccino Pu-Phap Tonkin (Delavay). — Subaffinis *Ascobolis* sed major, sporidiis numquam violaceis etc.

Sect. 3. Didymosporæ.

LANZIA Sacc. — Syll. VIII, p. 479.

1. **Lanzia longiasca** (Cav.) Sacc. *Pyrenopeziza* Cav. Mat. Lomb. p. 8, t. I, f. 1. — Ascomatibus gregariis, breve stipitatis, nigris, verticaliter eximie rugoso-plicatis, $^3/_4$ mm. latis, poro exiguo dein amplo dehiscentibus, disco concavo albido; ascis elongatis, gracilibus, cylindraceis 100 ≃ 3-4, basi leviter constrictis, apice obtusis, octosporis; sporidiis tereti-ellipsoideis, obtusiusculis, 1-septatis, 2-guttulatis, 10-12 ≃ 2-3; paraphysibus filiformibus, continuis. 4560

Hab. in ramis emortuis Rosæ spinosissimæ, M. Lesima in Apennino editiore (R. Farneti). — Excipulum nigricans, introrsum virescens. Ob colorem atrum a typo generis aliquid desciscit.

NIPTERA Fr. em. — Syll. VIII, p. 480.

1. **Niptera perpusilla** Bomm. Rouss. Sacc. Contr. Myc. Belg. IV, p. 20. 4561

— Ascomatibus sessilibus, hemisphæricis, glabris, pallide lignicoloribus, margine crassiusculo; disco concolore, concavo; ascis cylindraceis, octosporis, 60-63 ≃ 6-7; sporidiis oblique monostichis, rarius distichis, fusoideis, utrinque rotundatis, hyalinis, 1-septatis, subinde 2-guttatis, 12-15 ≃ 3,5; paraphysibus ascos paullo excedentibus, gracilibus, flexuosis clavula brevi terminatis.

Hab. in ramis Buxi sempervirentis, Tervueren Belgii. — Species minutissima, vitro tantum detegenda.

2. **Niptera? melioloides** Speg. F. Puigg. n. 390. — Ascomatibus or- 4562
bicularibus minutis, 200-250 μ. diam., tenuiter carnosulis, atris, glabris, disco pallidiore cerino-olivaceo; ascis cylindraceis paraphysatis, 40 ≃ 8-10; sporidiis clavulatis, didymis, dein constrictulis, hyalinis, 10-11 ≃ 3-4.

Hab. ad folia Ipomeæ in subiculo Asterinæ pseudopelliculosæ parasitans, in dumetis prope Apiahy Brasiliæ. — Jodi ops nulla.

3. **Niptera submelæna** Rehm Disc. p. 559. — Ascomatibus gregariis, 4563
primo punctiformibus, globoso-clausis, patelliformibus, extus nigro-brunneis, levibus, siccis angulosis v. longitudinaliter plicatis, nigrescentibus, 0,2-0,4. mm. lat., molliter ceraceis; disco griseo-albo, tenuiter marginato; contextu minute parenchymatico, brunneo; ascis clavatis, 8-sporis, 40-50 ≃ 6-7; sporidiis distichis, fusoideis, 1-septatis, rectis, 9-10 ≃ 2-2,5; paraphysibus filiformibus, supra sensim usque 3 μ. lat., hyalinis.

Hab. ad calamos siccos Junci effusi pr. Königstein (Krieger). — Habitus *Mollisiæ melatephræ.*

4. **Niptera melanophæa** Rehm Disc. p. 558. — Ascomatibus gregariis, 4564
dein cyathiformibus, raro patelliformibus, extus brunneis, levibus, siccis involutis, nigro-brunneis, 0,2-0,3 mm. lat., molliter ceraceis; disco albo-flavido, margine tenui et albido; contextu parenchymatico, brunneo, marginem versus cellulis valde elongatis, pallidis prædito; ascis clavatis, late sessilibus, supra subapplanatis, 8-sporis, 60-70 ≃ 12-15; sporidiis distichis, elongatis, rotundatis, loculis 1-guttatis, membrana crassa, 15-17 ≃ 6; paraphysibus furcato-ramosis, septatis, 1 μ. lat., supra non incrassatis sed leniter brunneolis.

Hab. ad folia sicca Caricis ligericæ. Grunewald pr. Berlin (Sydow).

SCUTULA Tul. — Syll. VIII, p. 486.

1. **Scutula Aspiciliæ** (Muell. Arg.) Rehm Disc. pag. 326, *Patellaria* 4565

(Calillaria) *Aspiciliæ* Muell. Arg. Flora 1872, p. 488. — Ascomatibus sparsis, nigris, 0,3–0,5 mm. lat., disco patelliformi, brunneo v. brunneo-violaceo, rotundato, primo crasse obtuseque marginato, dein applanato v. subconvexo, omnino immarginato; contextu primo brunneolo, dein subhyalino; ascis elongato-ovoideis, apice valide incrassato præditis, 8-sporis; sporidiis bilocularibus, medio constrictis, hyalinis, 10-14 ≍ 4-4,5; paraphysibus coalitis, 2-3-septatis, 2 μ. lat., supra usque ad 6 μ. crass. dilatatis et brunneolis.

Hab. in thallo Aspiciliæ calcareæ var. depressæ prope Bovernier in Wallis.

2. **Scutula fusco-purpurea** (Tul.) Rehm Disc. p. 325, *Celidium fusco-purpureum* Tul. Mem. lich. p. 121, t. 14, f. 9–13. — Ascomatibus in greges densos, rotundos, demum confluentes gregariis, primo globosis, dein applanato-apertis, nigris v. nigro-brunneolis, 0,2–0,4 mm. lat.; disco demum subconvexo, plerumque omnino immarginato; ascis ovoideo-clavatis, apice incrassatis, 6–8-sporis, 45–50 ≍ 10-12; sporidiis distichis, elongato-ovoideis, rarius ellipsoideis, utrinque obtusis, primo continuis, dein 1-septatis, guttatis, 10-15 ≍ 3-3,5; paraphysibus filiformibus, septatis, 2–3 μ. lat., coadunatis, supra dilatatis e cyaneo viridulis. 4566

Hab. ad superficiem superiorem thalli Peltigeræ horizontalis et P. caninæ. — Ascomata areolis decoloratis rotundis 0,5–2 mm. lat. insidentia.

3. **Scutula aggregata** Bagl. et Car. Cat. Lich. Valses. p. 404, Rehm Disc. p. 327. — Ascomatibus maculiformiter gregariis, primo terreis, dein atro-brunneis vel nigris, minutis; disco applanato, margine erecto; sporidiis lineari-ellipsoideis, 9–11 ≍ 3. 4567

Hab. in thallo Peltigeræ caninæ et P. horizontalis in Valesia It. bor., Wallis Helvetiæ et Riva Tiroliæ australis.

Sect. 4. Phragmosporæ.

BELONIUM Sacc. — Syll. VIII, p. 492.

1. **Belonium guestphalicum** Rehm Disc. p. 591 (*Trichobelonium*). — Ascomatibus solitariis, subiculo ex hyphis tenuibus, longis, simplicibus, septatis, brunneis, 5-6 μ. lat. constituto insidentibus, basi subangustatis, cyathiformibus, mox applanatis, extus brunneo-nigris, levibus, siccis plerumque involutis, rugosis, nigris, 0,5-1,2 mm. lat., gelatinoso-mollibus; disco demum subconvexo, tenuiter et inæqualiter marginato, griseo-brunneolo; contextu minute parenchymatico, 4568

brunneo, marginem versus cellulis elongatis prædito; ascis elongato-clavatis, supra rotundatis et incrassatis, 8-sporis, 130–150 × 8-10; sporidiis distichis, acicularibus, supra obtusis subtus acutis, rectis v. subincurvis, 3-septatis, hyalinis, 26–40 × 3-5; paraphysibus subtus repetite divisis, septatis, supra usque ad 2 μ. lat. tenuiterque brunneolis.

Hab. ad calamos siccos Junci effusi in Coerhaide pr. Münster (v. Tavel).

BELONIDIUM Mont. — Syll. VIII, p. 496.

1. **Belonidium imperspicuum** Bomm. Rouss. Sacc. Contr. Mycol. Belg. IV, p. 22. — Ascomatibus perexiguis, sparsis, sessilibus, glabris, hemisphæricis, griseo-fuscis, disco sordide griseo-plumbeo, initio concavo; ascis clavatis, substipitatis, 8-sporis, 75–80 × 11; paraphysibus filiformibus copiosis, simplicibus v. breve ramosis, ascos paullo superantibus; sporidiis 2–3-seriatis, subfusoideis, hyalinis, 5–7-septatis, 21 × 3-4. 4569

Hab. in ligno Carpini Betuli putrescente, Boitsfort Belgii.

2. **Belonidium Marchalianum** Sacc. Bomm. et Rouss. Contr. Myc. Belg. III, p. 5. — Ascomatibus sessilibus, glabris, primitus clausis dein apertis, 0,5–0,7 mm. diam., planis, vivis cæsiis demum melleis; ascis tereti-clavatis, 120–165 × 10–14; sporidiis distichis, vermicularibus, 3–7-septatis, granulosis, 33–42 × 6. 4570

Hab. in ligno fagineo putrido, inter hyphas *Helminthosporii apiculati*, Groenendael Belgii.

3. **Belonidium citrinellum** Bomm. Rouss. Sacc. Contr. Myc. Belg. IV, p. 21. — Ascomatibus sessilibus, patelliformibus, ceraceo-mollibus, 90–120 μ. diam., disco pruinoso, udo albo-flavido, sicco amœne citrino; ascis clavatis, brevissime stipitatis, 8-sporis, 60–72 × 8,5-9; paraphysibus filiformibus, simplicibus, ascos æquantibus; sporidiis distichis anguste fusoideis, 3–4-septatis (sæpius 3-septatis) 15–21 × 3–4, curvulis, 4-guttatis, hyalinis. 4571

Hab. in cortice interiori Platani orientalis, Groenendael Belgii.

4. **Belonidium macrosporum** (Boud.) Sacc. ? *Niptera* Boud. in Har. Champ. Cap Horn p. 193. — Album, sessile, regulare aut undulatum, hymenio spisso, pallido, cupula 0,5–1 mm. lat., extus tomentosum, albidum, hymenio depresso aut tumidulo, colore sordido; ascis maximis, clavatis, basi attenuatis, 8-sporis, 260–300 × 20–25; paraphysibus linearibus, tenuibus, sæpius divisis, non ad apicem 4572

incrassatis, numerosis; sporidiis majoribus, 5-7- v. pluri-septatis, hyalinis, oblongo-fusiformibus, intus non granulosis, 40-45 ≃ 10.

Hab. in ligno putrescente in sinubus Saint-Martin (HARIOT) et Orange (Doct. HYADES) Patagoniæ austr.

5. **Belonidium caulicolum** Oud. Contr. Mycol. XIII, p. 21, t. 8. f. 3. — 4573
Ascomatibus $^1/_3$-$^1/_2$ mm. lat., primo subepidermicis, dein per sulcos caulis arescentis gregatim erumpentibus, ceraceis, nigris, applanato-orbicularibus, centro depressis, versus ambitum autem tumescentibus; ascis clavatis, sessilibus, 50 ≃ 14; paraphysibus numerosissimis, filiformibus, ramosis; sporidiis octonis, distichis, fusoideo-clavatis, utrinque obtusissimis, 3-septatis, ad septa manifeste constrictis, 18-21 ≃ 6-7.

Hab. in caulibus siccis denudatis Senecionis Jacobææ, Loosduinen Nederlandiæ (Domina DESTRÉE).

6. **Belonidium rhenopalaticum** Rehm Disc. pag. 565. — Ascomatibus 4574
gregariis, cyathiformibus, demum applanato-patelliformibus, extus brunneis, levibus, siccis brunneo-flavis, 0,2-3 mm., molliter ceraceis; disco pallide v. griseo-flavido, primo margine tenui, brunneolo prædito, demum immarginato; contextu exili, basi late parenchymatico, dilute flavido v. brunneolo; ascis clavatis, supra acuminatis, 8-sporis, 75-80 ≃ 9-10; sporidiis distichis, elongatis, clavatis vel fusoideis, supra sæpe obtusis, rectis v. subincurvis, dein 1-5-septatis, hyalinis, 18-24 ≃ 3; paraphysibus filiformibus tenuibus, circ. 1,5 μ. lat., hyalinis.

Hab. ad culmos siccos Arundinis pr. Zweibrücken et Strassburg (MOUG. et NESTL. Stirp. n. 983, sub *Eustegia arundinacea*).

7. **Belonidium subnivale** Rehm Disc. pag. 567. — Ascomatibus spar- 4575
sis, subiculo minutissimo, nigrescente insidentibus, dein plano-patelliformibus, albido-griseis, extus basi brunneolis, levibus, siccis junioribusque involutis, extus brunneolis, 0,2-0,5 mm. lat., molliter ceraceis; disco tenuiter marginato; contextu basi parenchymatico, brunneo, marginem versus cellulis elongatis, hyalinis prædito; ascis clavatis, supra obtuse acuminatis, 8-sporis, 60-70 ≃ 9-10; sporidiis polystichis, anguste fusoideis, acutis, plerumque rectis, 1-3-septatis, hyalinis, 25-27 ≃ 3; paraphysibus filiformibus, septatis, usque 3. μ. lat., hyalinis.

Hab. in culmis siccis Sulden-Gletscher ad Ortler Tiroliæ.

8. **Belonidium caricincolum** Rehm Disc. p. 564. — Ascomatibus gre- 4576
gariis, late sessilibus, dein applanato-patelliformibus, extus nigro-brunneis, levibus, siccis subinvolutis, nigris, 0,2-1 mm. lat., molli-

ter ceraceis; disco griseo v. griseo-flavido v. atro-olivaceo, tenuiter marginato; contextu parenchymatico, brunneo; ascis clavatis, supra obtuse acuminatis, 8-sporis, 60-70 ≃ 7-8; sporidiis distichis, elongatis, subfusoideis, obtusiusculis, rectis v. subincurvis, primo continuis, minute 2-4-guttatis, demum 3-septatis?, hyalinis, 18-24 ≃ 3; paraphysibus filiformibus, supra 3 μ. lat., hyalinis.

Hab. ad folia putrescentia Caricis, rarius Graminacearum in paludosis Grunewald pr. Berlin (Sydow).

9. **Belonidium aurantiacum** Rehm Disc. p. 564. — Ascomatibus sparsis v. gregariis, late sessilibus, dein applanato-patelliformibus, extus aurantiacis, levibus, siccis involutis et fusco-aurantiacis, 0,1-0,4 mm. lat., molliter ceraceis; disco dilute aurantiaco, margine pallidiore et tenui; contextu parenchymatico, flavido, marginem versus cellulis elongatis prædito; ascis clavatis, supra rotundatis, 8-sporis, 60-70 ≃ 8; sporidiis distichis, anguste fusoideis, acutiusculis, rectis v. subincurvis, primo continuis, dein 1-3-septatis, hyalinis, 10-15 ≃ 1,5; paraphysibus filiformibus, hyalinis, supra usque ad 3 μ. lat. 4577

Hab. in foliis siccis Caricis acutiformis, Paulsborn pr. Berlin (Sydow). — Habitus *Mollisiæ Poæ*, sed *Bel. juncisedo* vere affine.

11. **Belonidium Laschii** Rehm Disc. p. 570. — Ascomatibus gregariis, late insidentibus, dein applanato-patelliformibus, extus nigro-brunneis, levibus, siccis subinvolutis, extus nigris 0,2-0,4 mm. lat., molliter ceraceis; disco griseo-flavido v. flavo, margine tenui, nigrescente; contextu parenchymatico, brunneo, marginem versus in series cellularum fibroideas, 6 μ. lat. abeunte; ascis ellipsoideo-clavatis, breve stipitatis, apice obtuse acuminatis et incrassatis, 8-sporis, 70-80 ≃ 12-15; sporidiis subparallelis, elongatis, subacuminatis, rectis v. subincurvis, 7-15-septatis, hyalinis v. dilute flaveolis, 36-45 ≃ 4,5; paraphysibus supra furcato-ramosis, hyalinis, 1,5 μ. cr. 4578

Hab. ad calamos siccos Junci conglomerati prope Driesen in Neumarck (Lasch).

12. **Belonidium subcarneum** Rehm Disc. p. 563. — Ascomatibus gregariis, basi angustatis, dein applanato-cyathiformibus, expansis, levibus, siccis involutis et convexis, 0,3-1 mm. lat., molliter ceraceis; disco roseo v. flavo-rubente v. flavo-brunneolo, margine tenui, albido et minute lanuginoso; contextu basi tenuiter parenchymatico, pallide brunneolo; ascis clavatis, supra obtuse acuminatis, 85-90 ≃ 9, octosporis; sporidiis distichis, elongato-fusoideis, acutis, rectis 4579

v. subincurvis, primo continuis 2-guttatis, demum 3-septatis, loculis mediis 1-guttatis, hyalinis, 12-17 ≃ 4-4,5; paraphysibus filiformibus minute guttuligeris, hyalinis, circ. 2. μ. lat.

Hab. in charta putri, Grunewald pr. Berlin (Sydow).

Sect. 5. Scolecosporæ.

GORGONICEPS Karst. — Syll. VIII, p. 504.

1. **Gorgoniceps leucophæa** Speg. Fung. Puigg. n. 391. — Ascomatibus sessilibus, discoideo-cupulatis, aggregatis v. subsparsis, extus aterrimis, 1-3 mm. d., disco albo; ascis cylindraceo-subclavulatis parce paraphysatis, 200 ≃ 8, jodo immutatis; sporidiis lineari-fusoideis, continuis, hyalinis, 150-160 ≃ 1,5-2. 4580

Hab. ad corticem putrescentem truncorum in silvis pr. Apiahy Brasiliæ.

ERINELLA Sacc. — Syll. VIII, p. 507.

1. **Erinella hyalopoda** Cooke et Mass. Grev. XIX, p. 48. — Stipitata, gregaria v. sparsa, alba; cupula cyathiformi, 1-1½ mm. alt., ½ mm. lat. tenui, pilis deciduis brevibus, flaccidis ornata, stipite gracili, elongato, hyalino, ad basim incrassato, sæpe sursum furcato; ascis cylindraceo-clavatis, 150 ≃ 10; sporidiis inordinatis, bacillaribus multinucleatis 35 ≃ 2-3, paraphysibus sursum acutis. 4581

Hab. in Phormio putri in Nova Zelandia (T. Kirk).

2. **Erinella guaranitica** Speg. Guar. I, p. 137 (*Helot.*). — Ascomatibus sparsis, sordide lutescenti-ceraceis, minutis, pedicello longiusculo, gracili, 300-500 ≃ 80-90; cupulis turbinato-concavis, 200-500 ≃ 150-200, crassiusculis, carnosulo-tenacellis, intus glabris, extus et præcipue ad marginem albo-puberulis vel minutissime puberulo-papillosis; ascis cylindraceo-clavulatis, sursum plus minus abrupte acutatis vel obtusatis, deorsum breviter attenuato-pedicellatis, 48-52 ≃ 5-7, 8-sporis; paraphysibus crassiusculis, ad apicem præcipue granulosis, 60 ≃ 1-2, parcis; sporidiis acicularibus, utrinque acutiusculis, 32-38 ≃ 1, guttulatis, hyalinis. 4582

Hab. ad folia dejecta putrescentia Laurineæ cujusdam in silvis pr. Guarapí Brasiliæ. — Species habitu media inter *Helotium* et *Trichopezizam* sed sporidiis acicularibus ab utroque diversa.

Fam. 3. **Ascobolaceæ** Boud.

Sect. 1. Phæosporæ.

ASCOBOLUS Pers. — Syll. VIII, p. 514.

1. **Ascobolus aglaosporus** Heim. Œsterr. Ascob. pag. 14, f. IV. — 4583
Ascomatibus parvis, 0,5 mm. lat., planiusculis, disciformibus, margine, furfure pilisque omnino deficientibus, pulchre albido-lilacinis, tenuiter punctulatis; ascis numerosis, 146-166 ≈ 26-27, oblongo-clavatis, superne attenuatis apice rotundatis, basi stipitiformi-angustatis; sporidiis distichis, ellipsoideis, pulcherrime lilaceo-violaceis, mox brunneolis, 15-18,5 ≈ 8,5-10, densissime minutissimeque granulosis; paraphysibus gracilibus, 2-3 μ. lat., apice obtusis, indistincte septatis, hyalinis, gelatina omnino deficientibus.

Hab. in stercore putrido cervino in ditione Presslau Austriæ infer. — *A. brunneo* et *A. amœno* affinis.

SACCOBOLUS Boud. — Syll. VIII, p. 524.

1. **Saccobolus pseudoviolaceus** Heim. Œsterr. Ascob. p. 19, f. VII. 4584
— Minutus, 0,5 mm. lat., sparsus v. confertus, aquoso-violaceus; disco convexo, apicibus ascorum distincte et sparse sub lente nigro-punctato; ascis oblongo-clavatis, late breviterque stipitatis, 131-150 ≈ 28-37; sporidiorum glomerulo ellipsoideo, 35-41 ≈ 14,5-17,5; sporidiis octonis, quorum 6 distichis, late ellipsoideis, uno latere incurvatis, utrinque subobtusatis, episporio parcissime asperopunctato, 13,5-14,5 ≈ 7-8; paraphysibus filiformibus, 3 μ. lat., hyalinis, non clavatis, septatis, plus minus ramosis.

Hab. raro in stercore cuniculino in montibus Geissberge Austriæ infer. — *S. Boudieri* affinis.

2. **Saccobolus Beckii** Heim. Œsterr. Ascob. p. 18, f. VIII. — Spar- 4585
sus, 0,5-1 mm. lat.; disco primo hyalino, demum ob ascos sub lente distincte punctato; ascis breviter et latiuscule clavatis, stipitatis, 85-113 ≈ 23-25; sporidiorum glomerulo oblongo-elliptico, 49,5 ≈ 18-23; sporidiis octonis, quorum 6 distichis, atris, episporio grosse verrucoso v. subgibboso, 17-21 ≈ 9-10, gelatina unilaterali 8-9 μ. cr. instructis; paraphysibus paullum ramosis, hyalinis, 3 μ. cr., apice vix aut distinctius clavulatis, septatis.

Hab. in stercore cervino, Pressbaum Austriæ infer., socio Saccobolo neglecto. — *S. neglecto* valde affinis, sed ascomatibus sporidiisque majoribus diversus.

Sect. 2. Hyalosporæ.

ASCOPHANUS Boud. — Syll. VIII, p. 528.

1. **Ascophanus flavus** Karst. Symb. Fenn. XXIX, p. 105. — Asco- 4586
matibus gregariis vel confertis, superficialibus, ovoideis, dein vertice applanatis, tenuiterque marginatis, glabris, flavis, 0,5–1,5 mm. lat.; ascis cylindraceis, octosporis, circiter 210 ≈ 12–14, jodo non cœrulescentibus; sporidiis monostichis, ellipsoideis, levibus, eguttulatis, 18–20 ≈ 9–10, paraphysibus filiformibus, apicem versus aliquanto incrassatis, deorsum fulvis, remote articulatis, 2–4 μ. cr.

Hab. in stercore vacciao ad Mustiala Fenniæ.

2. **Ascophanus subiculosus** Pat. Bull. Soc. Myc. 1891, p. 171. — Gre- 4587
garius 300 μ. diam., sessilis, subglobosus vel cylindraceus, apice truncatus leniterque depressus, initio pallide brunneus, dein nigrescens, glaber, mycelio arachnoideo albido-flavescente filamentoso insitus; ascis clavatis 210 ≈ 15, octosporis, jodo cœrulescentibus; paraphysibus gracilibus, filiformibus, apice subincrassatis, jodo intense cœrulescentibus; sporidiis monostichis ovoideis, levibus 22 ≈ 9–10.

Hab. ad fimum asininum, Egido prope Quito Æquatoriæ. — Paraphysibus copiosissimis et mycelio matricem totam obtegente facile dignoscitur.

3. **Ascophanus elegans** J. Klein Mykol. Mittheil. p. 566, t. X, f. 18-20 4588
(*Ascobolus*). — Ascomatibus obturbinatis, subsessilibus, margine crenatis, extus brunneis, disco flavo-viridulo; ascis erumpentibus, tereti-clavatis, amplis, octosporis, paraphysibus filiformibus brevioribus obvallatis; sporidiis oblique monostichis, ellipsoideis, 55–60 ≈ 30, initio strato hyalino cinctis, levibus, sordide albis.

Hab. in fimo equino, in laboratorio cultus, in Hungaria. — Asci et sporidia subinde multo minora manent.

4. **Ascophanus patagonicus** Speg. F. Pat. n. 161. — Ascomatibus 4589
sparsis vel hinc inde laxe gregariis, rubescenti vel flavescenti-cerinis, hemisphæricis, 0,5–1 mm. diam., superne applanato-concavis, margine integris, extus glaberrimis; ascis clavulato-saccatis 20 ≈ 8, sessilibus, jodi ope immutatis, aparaphysatis, octosporis; sporidiis inordinate di-tristichis, ellipticis, nonnihil inæquilateralibus, utrinque obtusiusculis, 7–9 ≈ 3, hyalinis.

Hab. in fimo Aucheniæ Guanaco in meseta secus Rio S. Cruz Patagoniæ.

5. **Ascophanus brunnescens** Karst. Symb. Myc. Fenn. XXIX, p. 104. 4590
— Ascomatibus sparsis, superficialibus, rotundatis, glabris, pallide brunneis vel sordide fulvescentibus, 0,2–0,3 mm. latis; ascis cylindraceo-clavatis, octosporis, 48–53 ≈ 10; sporidiis distichis ellipsoideis, eguttulatis, levibus, hyalinis, 7–8 ≈ 3–3,5 μ. cr.; paraphysibus 1 apice clavulatis et flavo-chlorinis.

Hab. in stercore vaccino ad Mustiala Fenniæ.

6. **Ascophanus spadiceo-niger** Rich. Cat. Champ. Marn. n. 925. — 4591
Granuliformis, sphæricus, atro-brunneus, fructificatione *A. ochracei* sed paraphysibus apice non inflatis et sporidiis tandem brunneolo-tinctis.

Hab. in fimo Cuniculorum in hortis St. Amand Galliæ.

RHYPAROBIUS Boud. — Syll. VIII, p. 539.

1. **Rhyparobius tenacellus** Phil. Grev. XIX, p. 74. — Sparsus, minu- 4592
tus, initio cylindraceus, dein hemisphæricus, immarginatus, albus, glaber, excipulo molliusculo, submembranaceo, disco plano v. subconvexo; ascis late clavatis, 70–80 ≈ 27–30; sporidiis 36 in quoque asco, ellipsoideis, hyalinis, 12 ≈ 8; paraphysibus sursum obtusis incrassatis, 6 μ. cr. guttulatis, dein pseudoseptatis.

Hab. in stercore Cuniculorum, Shropshire Britanniæ. — Cellulæ excipuli 10 μ. diam., arcte cohærentes. Affinis *R. albido* sed asci et sporidia majora et totus albus.

2. **Rhyparobius ascophanoides** Sacc. *Ascophanus rhyparobioides* Heim. 4593
Œsterr. Ascob. p. 22, f. XI. — Minutissimus, vix 300 μ. lat., albido-hyalinus, convexus, subgranuliformis; disco valde conspicue papillato; ascis paucis (6–8), late v. latissime obovato-clavatis, stipitatis, 120–174 ≈ 50–73, polysporis (non raro circ. 32-sporis); sporidiis inordinate dispositis, ellipsoideis, hyalinis, 14,5–17,5 ≈ 7–8,5; paraphysibus numerosissimis 2 μ. cr., tenuiter filiformibus, simplicibus, apice non incrassatis, septatis, hyalinis.

Hab. raro in stercore putrido cervino in ditione Pressbaum Austriæ infer. — *A. sexdecimsporo* affinis.

3. **Rhyparobius oligoascus** (Heim.) Sacc. *Ascophanus oligoascos* Heim. 4594
Œsterr. Ascob. p. 27, f. I. — Ascomatibus 200 μ. lat., ovoideis v. ovoideo-conicis, infra glabris, junioribus superne cellulis elongato-clavatis, luteis quasi coronatis, dein irregulariter ruptis; ascis plerumque 2, uno ad sporidiorum evolutionem parato, altero laterali nondum evoluto, oblongo-ovatis, tenuiter annulatis, 150 ≈ 60, polysporis; sporidiis in asco conglobatis, ellipsoideis vel subfusoideis,

4,5-5,5 ≈ 3; paraphysibus exterioribus apice clavulatis, interioribus linearibus, septatis, hyalinis.

Hab. in fimo cervino putrido ad Pressbaum Austriæ infer.

STREPTOTHECA Vuill. in Journ. de Bot. Mars 1887, p. 33 c. icon. (Etym. *streptos* torquis, collare et *thece* ascus). — Ascomata perexigua, subsessilia, e cylindraceo expansa, excipulo peripherico brevissimo tenui, pilis delicatis fimbriato. Asci tereti-clavati, breve stipitati, 32-spori, zona annulari sub vertice intus præditi, operculo minuto dehiscentes. Sporidia fusoidea, continua, hyalina. Paraphyses parcæ, asco breviores.

1. **Streptotheca Boudieri** Vuill. loc. cit. — Exigua, albo-diaphana, 4595
$^1/_5$-$^1/_4$ mm. diam.; ascis 120 ≈ 22; sporidiis 12,6 ≈ 3; cetera generis.

Hab. in stercore vulpino in silva de Haye prope Nancy Galliæ. — Cfr. cum *Rhyparobio Crouani* (Renny) Phill. — Syll. VIII, pag. 543.

THELEBOLUS Tode Meckl. I, pag. 41, Zukal. Denksch. Akad. Wien 1885, p. 1-6, t. I, Heim. Ascob. p. 28. — Ascomata exigua, primo subsphærica, dein ovata, omnino clausa, demum vertice irregulariter vel circumscisse dehiscentia, ascum unicum proportione maximum gerentia. Ascus subovatus, myriosporus, demum emergens, sæpius sub vertice bilabiato vel lacerato dehiscente annulato-zonatus. Sporidia ovato-oblonga, continua, hyalina. Paraphyses tenues, copiosæ, hyalinæ. — Genus hoc in vol. VII, Syll. p. 44, ut auctores omnes ante Zukalium, inter Nidulariaceas locaveramus. Cl. Brefeld (Untersuch. fasc. IX) locat inter suos Hemiascos.

1. *Eu-Thelebolus.* Ascomata glabra.

1. **Thelebolus stercoreus** Tode, Zuk. Denksch. Akad. Wien 1885, 4696
p. 1-6, t. I, Heim. Ascob. p. 28. — Ascomatibus primo subsphæricis, demum late ovatis, circ. 300-400 μ. alt,, extus glabris ochraceis; asco late ovoideo, 200-260 ≈ 150-175, distincte annulato; sporidiis oblongis, homogenis, indistincte nucleatis, 5,8-7 ≈ 3,5; paraphysibus ramosis, septatis.

Hab. in stercore humano, cuniculino, leporino, cervino, capreolino et vaccino, in Europa et America.

2. **Thelebolus nanus** Heim. Œsterr. Ascob. p. 30, f. II. — Ascoma- 4597
tibus minutissimis, circ. 130 μ. lat., ellipsoideis, hyalinis; ascis ellipsoideis, annulatis, sub apice basique lenissime constrictis, 140 ≈

80; sporiidis ellipsoideis, hyalinis, inconspicue 1-guttatis, 5-6 ≈ 3; paraphysibus non remotis, tenuissime septatis, 3 μ. cr., hyalinis.

Hab. in stercore leporino, rarissime, socio Thelebolo stercoreo, cui affinis, Pressbaum Austriæ infer.

2. *Trichobolus* Sacc. Ascomata setigera.

3. **Thelebolus Zukalii** Heim. Œsterr. Ascob. p. 30, f. III. — Ascomatibus primum subsphæricis, dein late ovatis, circ. 0,5 mm. lat., pallide ochraceis, imprimis in superiore parte setis rigido patentibus septatis, atque ad 300 μ. long., acutissimis, obsitis; ascis latissime ovatis, exannulatis, circ. 375 ≈ 245; sporidiis subsphæricis, hyalinis, distincte 1-guttatis, 8,5-11,5 ≈ 7,5-9; paraphysibus gracillimis, ramosis, 2 μ. hyalinis, septatis. 4598

Hab. in stercore putrido cervino, Pressbaum Austriæ infer. — *Th. stercoreo* affinis, sed setulis prædistinctus.

GYMNODISCUS Zuk. — Syll. VIII, p. 545.

1. **Gymnodiscus durus** Zuk. Berichte d. deutsch. bot. Gesell. 1890, p. 295. t. XVII, f, 1-4 et 9. — Ascomatibus globosis, 1-1,5 mm. albidis vel brunneolis, solitariis vel in pseudostroma arcte connexis; excipulo ex hyphis densis contexto, fere trigono, circ. 140 μ. cr.; ascis globulosis, racemosis 5-7 ≈ 5-6, octosporis, subsessilibus, hyphis ramosis septatis fultis; sporidiis conglobatis ellipsoideo-cylindraceis, subangulosis, 3-4,5 ≈ 2,5, flavidis, tunica crassiuscula levi. 4599

Hab. in subere in extracto gallarum natante, cultus Wien Austriæ.

APHANOASCUS Zuk. Berichte d. deutsch. bot. Gesell. 1890, p. 295. — Ascomata globulosa, excipulo initio gymnoascaceo (albo), dein pseudoparenchymatico (rubro) pilis septatis parce cincto. Asci piriformi-ellipsoidei, 8-spori, hyphis longis ramosis glomeratim inserti. Sporidia ellipsoideo-globulosa, muricata. — Status conidicus sistit formam, *Sporotricho vellereo* Sacc. et Sp. F. it. n. 741 valde similem.

1. **Aphanoascus cinnabarinus** Zuk. loc. cit. t. XVII, f. 5-7. — Ascomatibus maturis cinnabarinis, 1-2 mm. diam.; hyphis ascogenis 1,5-2 μ. cr.; ascis subsessilibus, demum rubentibus, 13-14 ≈ 12-15; sporidiis 5,5 ≈ 5, conglobatis, rubentibus, episporio spinuloso. 4600

Hab. in fimo crocodylino, cultus, Wien Austriæ. — Sec.

auctoris sententiam fungillus medium tenet inter *Gymnoascum* et *Eurotium*.

Fam. 4. **Dermateaceæ** Fr.

Sect. 1. Hyalosporæ.

CENANGIUM Fr. — Syll. VIII, p. 556.

1. **Cenangium hypochlorum** Berk. et Curt. in Grev. XIX, p. 107 (*Encœlia*). — Sparsum, sessile, cupulatum, firmum, subcoriaceum, 1-2 mm. diam., flavo-viridulum, furfuraceum; disco sordide ochraceo; ascis anguste clavatis, octosporis, 60-65 ≃ 5-6; sporidiis fusoideis, vel oblongo-fusoideis, rectis vel curvulis, 10-12 ≃ 2-2,5; paraphysibus filiformibus. 4601

   Hab. in cortice emortuo in insula Cuba.

2. **Cenangium Labiatarum** Ces. Flora 1853, p. 201, Klotzsch H. M. n. 1731. — Erumpens, sparsum, extus nigrum, glabrum, disco primitus pruinoso, demum pallide helvolo, margine in adultis (semper?) laciniato. 4602

   Hab. ad caules exsiccatos Labiaterum, imprimis Menthæ rotundifoliæ et Lycopi, Vercelli Ital. bor. — *Cenangium chlorellum* Fr. — Syll. VIII, p. 576, III, p. 172 — est, teste Tul. Carp. *Nectria chlorella* (Fr.) Tul. appellandum.

TYMPANIS Fode. — Syll. VIII, p. 578.

1. **Tympanis? toomensis** B. et Br. Brisb. III, p. 222, t. 29, f. 18-21. — Gregaria, primo farinosa, sphariæformis, dein stipite circ. 4 mm. alt. suffulta, margine incurvo, disco aperto cretaceo, extus tomento sordide albo vestita; ascis sporidiisque..... nondum maturis. 4603

   Hab. ad fructum Banksiæ ad ripas fluvii Tooma Australiæ (F. Campbell). — Species quoad habitum ad *Tympanidem* accedens sed dubia quia ascis sporidiisque adhuc immaturis.

2. **Tympanis Cratægi** Lasch in Bot. Zeit. 1861, p. 295. — Erumpens, simplex vel subcæspitosa, turbinata, pallide fusca, intus obscure flava, disco subviridi-nigrescente; ascis clavatis; sporidiis oblongo-ovoideis. 4604

   Hab. in ramis Cratægi in Borussia. — An diversa a *Peziculæ Cratægi*?

Sect. 2. Didymosporæ.

CENANGELLA Sacc. — Syll. VIII, p. 587.

1. **Cenangella Carpini** (Hazsl.) Sacc. Syll. VIII, p. 589, Bomm. Rouss. Contr. Myc. Belg. IV, p. 24. — Asci clavati, 90-120 ≃ 13-15, basi nodulosi; paraphyses filiformes guttulatæ; sporidia fusoidea, curvula, 1-septata, 39-57 ≃ 6, hyalino-nubilosa, demum olivacea, 2-3-sticha. Nascitur quoque in ramis Carpini Betuli, Groenendael Belgii. — **Cenangella Pinastri** (Tul.) Sacc. Syll. VIII, p. 588, teste Hazsl., Magyar. Szab. Disc. t. XI, f. 12, demum præbet sporidia fusca. An diversa a specie Tulasneana? 4605

Sect. 3. Phragmosporæ.

SCLERODERRIS Fr. — Syll. VIII, p. 594.

1. **Scleroderris congesta** (Mass.) Sacc., *Cenangium* Massee Journ. of Bot. 1891, p. 1, t. 300, f. 1-6. — Ascomatibus stromate tenui insidentibus, cæspitulos albidos, irregulares, 0,5-1 cm. diam. efformantibus, sessilibus, corneis, circularibus v. e mutua pressione irregularibus, sphærico-depressis, primo clausis irregulariter ruptis, extus brunneis, dense pruinosis, disco concavo, pallido; ascis cylindraceis, basi attenuatis, 8-sporis; sporidiis monostichis, ellipsoideo-fusiformibus, 3-septatis, levibus, hyalinis, 16-18 ≃ 8; paraphysibus numerosis, filiformibus, septatis, ascis æquilongis, 1,5-2 μ. diam. 4606

Hab. ad corticem in insula Madagascarensi (Baron).

Sect. 4. Scolecosporæ.

GODRONIA Mong. — Syll. VIII, p. 601.

1. **Godronia splendida** Speg. Fung. Puigg. pag. 208. — Ascomatibus sparsis, erumpenti-superficialibus, scutellato-discoideis, 2-3 mm. diam., marginatis, carnoso-coriacellis, extus atris, glabris, rugulosis, disco levissimo pulchre aurantiaco; ascis cylindraceis, 200-300 ≃ 10, apice subtruncatis, deorsum longe attenuato-stipitatis, octosporis; sporidiis filiformibus, 150-180 ≃ 1, hyalinis, continuis; paraphysibus dense filiformibus, hyalinis, apice ramulosis, aurantiaco-granulosis, dense mucoso-coalescentibus. 4607

Hab. ad ramos corticatos emortuos in silvis pr. Apiahy Brasiliæ (Puiggari).

CRINULA Fr. — Syll. VIII, p. 606.

1. **Crinula caliciiformis** Fr. — Syll. VIII, p. 607. — Var. **sorbicola** 4608
Karst. Symb. Myc. Fenn. XXVI, p. 31 (forma conidica). — Stipitibus scabrosis, glabris, deorsum tomentosis, atro-olivaceis, ex hyphis fuligineis subhyalinisque fasciculatis compositis; conidiis ex hypharum apice angustissimo, hyalino catenulatim oriundis, mox secedentibus, oblongatis vel ellipsoideo-oblongatis, rectis, eguttulatis, hyalinis, 2-3 ≃ 1-1,5.

Hab. in cortice emortuo Sorbi Aucupariæ in Mustiala Fenniæ.

Fam. 5. **Bulgariaceæ** Fr.

Sect. 1. **Hyalosporæ.**

PULPARIA Karst. — Syll. VIII, p. 612.

1. **Pulparia australis** Speg. Guar. I, p. 136. — Ascomatibus hinc inde 4609
pauci-aggregatis, sæpe subfasciculatis, breviter pedicellatis, turbinato-expansis, 1-1,5 mm. diam., membranaceo-carnosulis, tenacellis, cinerellis, extus vix obscurioribus, glabris, sub lente valide pruinosulis, in disco pallidioribus, margine acutis, integris, udis planis, siccis, undulato-involutis, contextu indistincto, coriacellis; ascis clavatis, sursum acutato-obtusatis, deorsum attenuato-stipitatis, 8-sporis, 38-40 ≃ 5; sporidiis globosis, 3-3,5 μ. diam., levibus, grosse guttulatis v. granulosis, hyalinis; paraphysibus ascis vix longioribus, antice incrassatis, hyalinis, simplicibus.

Hab. ad truncos cariosos putrescentes in silvis subvirgineis pr. Carapeguá Brasiliæ. — Species habitu inter *Helotium* et *Chlorosplenium* media.

OMBROPHILA Fr. — Syll. VIII, p. 613.

1. **Ombrophila albiceps** Peck 42 Rep. p. 34, t. II, f. 1-5. — Asco- 4610
matibus hemisphæricis v. convexis, tenacibus, albidis vel interdum dilute incarnatis, 4-8 mm. lat.; stipite æquali v. basi crassiusculo, tenaci, farcto, udo subglutinoso, pallido vel rubenti-brunneo, 8-16 mm. long., 2-9 mm. cr.; ascis anguste cylindraceis, 8-sporis, 40-50 ≃ 5-6,5, paraphysatis; sporidiis minutis, ellipsoideis, 5 ≃ 3.

Hab. in ligno dejecto arborum deciduarum, North Elba Amer. bor. — Habitus *Leotiæ*.

2. **Ombrophila aurata** (Berk. et Rav.) Phil. Grev. XIX, p. 74, *Peziza aurata* Berk. et Rav. in Ravenel's Exs. Fasc. III, n. 37. — Solitaria v. conferta, initio clausa dein concava, 2-6 mm. lat., demum expansa, convexa, margine undulata, 12 mm. lat. extus primo viridulo-flava, disco atro-virenti, demum fusca, deorsum venosa; ascis clavatis, 30 ≃ 4, 6-8-sporis; sporidiis fusoideis, hyalinis, 5 ≃ 2; paraphysibus parcis. 4611

Hab. in ligno emortuo Aceris in Carolina inf. Amer. bor.

3. **Ombrophila bulgarioides** Sacc. Myc. Austral. n. 78, f. 4. — Ascomatibus gelatinoso-induratis in cæspitulos congestis, initio suburceolatis sessilibus, dein breve stipitatis, scutellatis, extus nitide ochraceo-lutescentibus, leviusculis; disco planiusculo, mox undulato-contorto, 5-6 mm. diam., rufo-fusco; ascis teretibus, brevissime stipitatis, octosporis, apice rotundatis, 35-10 ≃ 3,5-4 paraphysibusque bacillaribus gelatina fulva simul conglutinatis, sporidiis oblongis, rectis vel leniter curvis, 6-7 ≃ 2, hyalinis, continuis. 4612

Hab. in ligno emortuo, Gracemere Australiæ, rarius. — Peraffinis *O. collemoidi* (Rehm) Sacc. Syll. VIII. pag. 618, a qua colore ascomatis, ascis sporidiisque longioribus differre videtur.

4. **Ombrophila subvillosula** Rehm Disc. p. 479. — Ascomatibus solitariis, dein cyathiformibus, 0,3-1,2 mm. lat., basi stipite cylindraceo, subrecto v. arcuato, 1-3 cm. long., 0,2-0,4 mm. cr. præditis, brunneolis, extus et præcipue ad marginem ob pilos simplices, vix septatos, obtusos, rectos, primo hyalinos, dein dilute brunneolos, 30-120 ≃ 3, albo-pannosis, gelatinoso-ceraceis; disco tenuiter marginato; contextu prosenchymatico, brunneo; ascis clavatis, supra rotundatis, 8-sporis, 90-100 ≃ 9-12; sporidiis oblique distichis, fusoideis, supra sublatioribus, non vere acutis, rectis, utrinque minute 1-guttatis, 12-20 ≃ 4-5; paraphysibus subramosis, hyalinis, circ. 1,5 μ. lat. 4613

Hab. ad folia pinea in silva pr. Königstein (Krieger). — *O. Morthierianæ* valde affinis; ab ea differt ascomatibus margine tenuiter ciliatis.

5. **Ombrophila firmula** (Roll.) Sacc. *Coryne* Roll. in Bull. Soc. Myc. V, pag. 169, t. XV, f. 2. — Gelatinosa, firma, elastica, primitus clausa, turbinata, dein patens, margine orbiculata v. flexuosa, 2-3 mm. diam.; disco supra glauco-viridi, tum convexo, tum concavo-depresso, margine tumente opalino-hyalino cincto, in roseum vergente tandemque pallescente; contextu hyalino; ascis clavatis, stipitatis, 8-sporis, 80-90 ≃ 7-8; sporidiis fusoideis, sæpe 2-3-gutta- 4614

tis, 6-7 ≈ 2-3; paraphysibus filiformibus, continuis, prominentibus, sursum virescentibus.

Hab. in Polyporo Schweinizii vetusto, Zermatt Tiroliæ.

ORBILIA Fr. — Syll. VIII, p. 621.

1. **Orbilia fugax** Bomm. Rouss. Sacc. Contr. Myc. Belg. IV, p. 26. — 4615
Ascomatibus sparsis, sessilibus, concavis, subdiaphanis, glabris, inter nervos foliorum sitis, 36-45 μ. lat., margine albo; ascis oblongis vel clavatis, basi curvis, sessilibus, 18-21 ≈ 5-6, octosporis; paraphysibus filiformibus, parcis, simplicibus ascos subæquantibus; sporidiis oblique 1-stichis vel 2-stichis, oblongis, 4-5 ≈ 0,7-1, hyalinis.

Hab. in culmis Calamagrostidis silvaticæ vel arundinaceæ, Poix Galliæ.

2. **Orbilia brasiliensis** (Speg.) Sacc. *Calloria brasiliensis* Speg. F. 4616
Puigg. n. 393. — Ascomatibus orbiculari-effusis mediocribus rubro-aurantiis, 2-5 mm. diam. glaberrimis, tenuibus; ascis cylindraceo-clavulatis parce paraphysatis, 45-50 ≈ 4, octosporis; paraphysibus parcis, filiformibus; sporidiis elliptico-fusoideis, utrinque acutis, hyalinis, 5 ≈ 1-1,5.

Hab. in tela dejecta putrescente in hortis prope Apiahy Brasiliæ. — Iodi ops nulla.

HÆMATOMYCES B. et Br. — Syll. VIII, p. 633.

1. **Hæmatomyces fagineus** Peck 43 Rep. pag. 33, t. IV, f. 5-7. — 4617
Tremelloides, cerebriformis, 2,5-5 cm. diam., gyroso-lobata, glabra, nitens, extus intusque rubra (*raisin color*); ascis subcylindraceis, 8-sporis, 60 ≈ 7,5; paraphysibus gracilibus, supra lenissime incrassatis; sporidiis plerumque monostichis, anguste ellipsoideis, 7,5 ≈ 3,5-5.

Hab. ad truncos Fagi ferrugineæ, Rainbow Amer. bor. — Habitus *Tremellæ*.

AGYRIUM Fr. — Syll. VIII, p. 634.

1. **Agyrium flavidulum** Rehm Disc. p. 452. — Ascomatibus sparsis, 4618
sessilibus, rotundis vel elongatis, plerumque confluentibus, plus minus valde convexis, griseo-flavidis vel pallide succineis, levibus, siccis flavo-brunneolis, 0,3-1,2 mm. lat., gelatinoso-ceraceis; excipulo nullo; ascis clavatis, supra rotundatis, 8-sporis, 75-90 ≈ 6-7; sporidiis distichis ellipsoideis, obtusis, rectis, plerumque 2-guttatis,

9-10 ≈ 3; paraphysibus filiformibus, supra usque ad 2 μ. lat., hyalinis.

Hab. in pericarpio Fagi in silva pr. Sugenheim in Franken.

GLŒOPEZIZA Zukal in Flora 1891, p. 100 (Etym. *glœos* gluten et *Peziza*). — Ascomata submicroscopica, peripherice involucro e paraphysibus mutatis constituto, supra massa gelatinosa cupuliformi limitata. Excipulum parenchymaticum deficiens. Asci clavati, 8-spori, paraphysati. Sporidia continua, ovato-ellipsoidea, hyalina, levia.

1. **Glœopeziza Rehmii** Zukal loc. cit. t. III, fig. 14-25. — Ascomatibus circ. 100-150 μ. alt., 200 μ. lat., mollibus, dilute et translucide rubentibus, involucro e paraphysibus mutatis constituto, cinctis, ecorticatis, initio massa gelatinosa, clara inclusis; ascis clavatis, supra sensim rotundatis, apice subincrassatis, rectis curvulisve, egregie stipitatis, circ. 84-90 ≈ 8-10 (p. sp.), 8-sporis; sporidiis oblique monostichis, ellipsoideis, subovoideis, levibus, hyalinis, circ. 10-12 ≈ 6-8; paraphysibus simplicibus, supra leniter clavato-incrassatis, strato gelatinoso, tenuissimo cinctis. 4619

Hab. in Jungermania trichophylla, Wechselgebiet Austriæ infer. (M. Heer).

Sect. 2. Phæosporæ.

BULGARIA Fr. — Syll. VIII, p. 636.

1. **Bulgaria trichophora** Massee Journ. of Bot. 1891, pag. 2, t. 300, f. 7-10. — Solitaria, sessilis, subgelatinosa, suborbicularis, 3,5-5 cm. diam., margine dein involuto et tenui, atro-brunneis, extus pilis longissimis, cylindraceis, septatis, sinuatis, atro-brunneis, 7-8 μ. diam. obtectis, disco convexo, regularibus; ascis cylindraceis, basi abrupte attenuatis, 8-sporis; sporidiis atro-brunneis, anguste ellipsoideis, levibus, 42-45 ≈ 12-14; paraphysibus numerosis, cylindraceis, apice subincrassatis, guttulis brunneis farctis, septatis, 4-5 μ. cr. 4620

Hab. in ligno in insula Madagascar (Baron).

2. **Bulgaria chalybea** (Berk. in Herb.) Cooke et Mass. Grev. XIX, p. 74, *Bulgaria inquinans* var. *chalybea* Berk. Indian Fungi. — Cæspitosa, substipitata, demum aperta, turbinata, dein obconica extus rugulosa, umbrina, 2½-5 cm. diam., subfurfuracea, disco concavo, chalybeo, margine acuto; ascis clavatis, tetrasporis; sporidiis 4621

monostichis ellipsoideis, fuscis inæquilateralibus, 25-27 ≃ 10; paraphysibus linearibus, hyalinis.

Hab. ad ligna Darjeeling Indiæ orientalis.

3. **Bulgaria globosa** (Schm.) Fr. — Syll. VIII, pag. 636. — Sec. cl. Karst. in Hedw. 1891, p. 247, species rarissima lecta fuit in palude prope Viburgum a cl. Arth. Thesleff et præbet ascos cylindraceos longissime stipitatos; sporidia sphæroideo-ellipsoidea, 8-10 ≃ 5-6, monosticha, hyalino-flavescentia; paraphyses articulatas, apice subincrassatas, 2-3 μ. cr. Vix ergo comparanda species cum gen. *Sarcosomate*, de quo infra. Cfr. Rehm Disc. p. 497.

4. **Bulgaria Agaves** Rabenh. in Kl. H. M. n. 1223, Bot. Zeit. 1849, 4622
p. 293 (nomen).

Hab. in Agave in Germania. — E loco vix hujus generis.

SARCOSOMA Casp. in Rehm Disc. p. 497 (Etym. *sarx* caro et *soma* corpus). — Ascomata maxima, sessilia, carnoso-gelatinosa, globoso-truncata, extus brunnea. Asci cylindracei longissimi, octospori. Sporidia ellipsoidea, monosticha, intus granulosa, subhyalina. Paraphyses filiformes, ramosæ, septatæ, hyalinæ.

1. **Sarcosoma Platydiscus** Casp. in Rehm loc. cit. fig. pag. 474 (ut 4623
var. *S. globosi*). — Ascomatibus globoso-truncatis, extus atro-brunneis, 4-7 cm. alt., 4-9 cm. lat., disco scutellato-truncato, marginato; ascis 300-400 ≃ 19, octosporis; sporidiis continuis, granulosis, 30-39 ≃ 12-14.

Hab. pr. Königsberg Germaniæ (Caspary). — Cum *Bulg. globosa*, teste Karst., non comparanda species.

Sect. 3. Didymosporæ.

SOROKINA Sacc. nov. gen. (Etym. a cl. N. W. Sorokin in Univers. Kazan Bot. prof.). — Ascomata subturbinata, sessilia, gelatinosa. Asci tereti-clavati, paraphysati. Sporidia ellipsoideo-oblonga, 1-septata, brunnea.

1. **Sorokina microspora** (Berk.) Sacc., *Bulgaria microspora* Berk. in 4624
Grev. XIX, pag. 74. — Conferta v. sparsa, sessilis, subturbinata, dein expansa, disco plano v. concavo, umbilicato, ruguloso, nitido, purpureo-brunneo, sicco nigro; substantia gelatinosa, rugosa; ascis tereti-clavatis; sporidiis ellipsoideis, utrinque acutatis, brunneis, 1-septatis, 6 ≃ 3; paraphysibus filiformibus.

Hab. ad ligna, Venezuela.

PARYPHEDRIA Zukal in Flora 1891, p. 98 (Etym. *paryphe* collare et *dria* urna, hinc non *Parüphädria* ut habet Zuk., nec *Paryphydria* ut Rehm Disc. p. 484). — Ascoma cartilagineo-gelatinosum, siccum carneum, nigricans, urceolato-urniforme, clausum, dein poro sensim ampliato pertusum, late marginatum. Asci clavati, octospori. Sporidia oblonga, 1-septata, subhyalina. Paraphyses apice capitato-gelatinosæ. — Sec. cl. Zukal fungus in algis (*Palmella, Glœocapsa*) parasitatur.

1. **Paryphedria Heimerlii** Zukal loc. cit. t. III, f. 1-13. — Ascomate 4625
1-2 mm. lat., diu urniformi, pertuso dein explanato, convexo, diaphane brunneo, margine lato, plano; ascis clavatis, stipitatis, 45-50 ≃ 8-11 p. sp.; sporidiis octonis oblique monostichis, breve clavulato-oblongis, constricto-1-septatis, 15-18 ≃ 4-5, ex hyalino brunneolis; paraphysibus articulatis, apice capitulo mucoso brunneolo terminatis.

Hab. in foliis Jungermanniæ quinquedentatæ aliarumque pr. Aspang Austriæ inf. (M. Heeg).

Sect. 4. Phragmosporæ.

CORYNE Tul. — Syll. VIII, p. 641.

1. **Coryne sarcoides** (Jacq.) Tul. — Syll. VIII, p. 642. — Var. **Winteri** Rehm Disc. p. 492. — Ascomatibus sessilibus, brunneo-purpureis, infra sæpe succineis; ascis 124-135 ≃ 10-13; sporidiis 6-guttatis, dein pluriseptatis, 16-18 ≃ 4. In truncis Pini silvestris in Helvetia (Winter). — Var. **viridescens** Rehm Disc. p. 492: ascomatibus atro-viridibus, siccis læte viridi pruinosis, contractis; ascis 110-120 ≃ 6; sporidiis 10-12 ≃ 3-3,5, 2-4-cellularibus. In ligno Tiliæ in Carniolia (Voss).
2. **Coryne solitaria** Rehm Disc. pag. 488. — Ascomatibus solitariis, 4626
sessilibus, primo turbinatis, dein cyathiformibus, tandem applanato-caliciformibus, 2-7 mm. lat., extus levibus, basi rugosis, stipite usque ad 1 mm. alt., 0,3-0,5 mm. cr. suffultis, ceraceo-gelatinosis, siccis extus saturatius brunneis et corneis, disco initio tenuiter membranaceo, dein irregulariter convexo, dilute brunneo; ascis clavatis, supra rotundatis, 100-120 ≃ 9-11; sporidiis octonis, distichis, elongato-fusoideis, obtusis, rectis v. incurvis, primo 1- dein 2-locularibus, contentu granuloso, viridulo, 12-15 ≃ 4-4,5; paraphysibus filiformibus, 1 μ. cr., hyalinis.

Hab. ad lignum querneum prope Münster (v. Tavel). — *C. striatæ* affinis.

3. **Coryne pallidula** Rehm Disc. pag. 488. — Ascomatibus gregariis, primo globoso-clausis et sessilibus, dein cyathiformibus, usque ad 1/2 mm. long., longe crasseque stipitatis, demum applanato-patelliformibus, extus brunneo-nigris, siccis rugosis et sæpe pulvere dilute albido tectis, 0,2-1,5 mm. lat., gelatinoso-ceraceis; disco pallido, margine tenui et albido; contextu prosenchymatico; ascis clavatis, supra obtuse acuminatis, 8-sporis, 60-65 ≃ 8-9; sporidiis elongato-fusoideis, obtusis, rectis, primo continuis, dein 1-septatis, utrinque 1-guttatis, 7-10 ≃ 3; paraphysibus filiformibus, circ. 1,5 μ. lat., supra non incrassatis, hyalinis. 4627

Hab. in trunco decorticato querneo pr. Münster (v. Tavel). — *C. stemmatæ* affinis.

Sect. 5. Dictyosporæ.

SARCOMYCES Massee Journ. Myc. 1891, p. 178, t. VII, f. 1-3 (Etym. *sarx* caro et *myces*). — Ascomata subgelatinosa, subsessilia, erumpentia, basi coarctatâ insidentia; discus seu hymenium convexum, leve, margine acuto. Asci cylindracei. Sporidia monosticha, muriformia colorata. Paraphyses copiosæ. — *Hæmatomyxæ* affinis, sed hymenium leve, marginatum.

1. **Sarcomyces vinosus** Massee l. c., *Tremella vinosa* Berk. et Curt. herb. — Erumpens, substipitata, in discum carnosum subcircularem planum vel convexum, acute marginatum dilatata, glabra, purpureo-brunnea; ascis cylindraceis, deorsum incurvo-tenuatis, 4-sporis; sporidiis monostichis, oblongis, subacutis, 21-24 ≃ 8-10, triseptatis, dein muriformibus, ad septa vix constrictis, pallide brunneis; paraphysibus linearibus, hyalinis, continuis, copiosis, 2-5 μ. cr. 4628

Hab. ad ligna in Venezuela et Carolina inf. — Habitus *Bulgariæ inquinantis.*

Fam. 6. **Stictidaceæ** Fr.

Sect. 1. Hyalosporæ.

PROPOLIS Fr. — Syll. VIII, p. 648.

1. **Propolis Betulæ** Fuck. Syll. VIII, p. 650. — Var. **Callunæ** Bomm. Rouss. Contr. Myc. Belg. IV, p. 28. — Ascomatibus flavo-cervinis, 4629

intus alutaceis, furfuraceis; ascis clavatis, sessilibus, 90-200 × 16-21, filiformi-paraphysatis; sporidiis oblongis, curvis, distichis, 34-36 × 9-10, bi-pluriguttatis.

Hab. in trunculis Callunæ vulgaris, Nouceveux Belgii. — Affinis *P. rhodoleucæ*.

OCELLARIA Tul. — Syll. VIII, p. 654.

1. **Ocellaria Pulicariæ** Passer. Diagn. F. N. V, n. 22. — Ascomatibus 4630
sparsis, gregariis, parvulis, subdiscoideis, ceraceis, epidermide denticulata cinctis, excipuli contextu parenchymatico, cinereo-fusco; ascis clavatis; paraphysibus filiformibus subæquilongis fultis, 8-sporis, 37-50 × 5-7; sporidiis oblique monostichis, subfusiformibus, hyalinis, integris 8-10 × 12.

Hab. in caulibus siccis Pulicariæ viscosæ, Vigheffio pr. Parma Ital. bor.

NÆVIA Fr. — Syll. VIII, p. 658.

1. **Nævia Vincæ** Fautrey in Rev. Myc. 1890, p. 161. — Ascomatibus 4631
roseis, hysterioideis, dein cupularibus; paraphysibus numerosis; ascis brevioribus, apice incrassatis; sporidiis oblongis, rotundatis, 8 × 3,4.

Hab. in caulibus subsiccis Viciæ Craccæ, Noidan, Côte-d'Or Galliæ.

XYLOGRAPHA Fr. — Syll. VIII, p. 664.

1. **Xylographa hydrophila** Bomm. Rouss. Sacc. sp. n. — Ascomatibus 4632
subsparsis, longitudinalibus, erumpentibus, linearibus, nigris, 0,5-0,7, mm. long., 0,1 mm. lat., hymenio elongato griseo-atro, margine brunneo; ascis clavatis, basi nodulosis, 90-110 × 11-14; sporidiis distichis, ellipsoideo-acutis, 18-24 × 4,7, hyalinis, guttulatis.

Hab. in calamis Scirpi lacustris, Dohan Belgii.

Sect. 2. Didymosporæ.

COCCOPEZIZA Karst. in Rev. Myc. 1890, n. 47. — Ascomata matrice innata, crassiuscula, ceracea, applanata vel lentiformia, immarginata, epidermide nigrificata mox disparente tecta. Asci obovoidei, octospori. Sporidia conglobata, obovoideo-oblongata, uniseptata, hyalina. Paraphyses nullæ. — A *Propolidio* Sacc. præceteris defectu paraphysum diversa.

1. **Coccopeziza ootheca** Karst. l. c. — Ascomatibus matrice innatis, 4633

pellicula peridermii nigrificata mox disparente, tectis, applanatis vel lentiformibus, orbiculatis vel oblongis, sæpe inæqualibus, disco mox nudato flavido-pallente, circiter 0,1 mm. lat.; ascis ovoideis, 30-37 ≃ 28-29; sporidiis oblongato-ovoideis, uniseptatis, ad septum non constrictis, rectis, eguttulatis, 16-18 ≃ 6.

Hab. in cortice levi Populi albæ in Gallia (P. Hariot).

Sect. 3. Phragmosporæ.

ODONTOTREMA Nyl. — Syll. VIII, p. 679.

1. **Odontotrema inclusum** (Pers.) Karst. — Syll. VIII, p. 680. — ***0. affine** Bomm. Rouss. Sacc. — A typo recedit disco subolivaceo; ascis tereti-clavatis, 75-120 ≃ 12-15; sporidiis triseptatis, 18 ≃ 7, loculo secundo inflatulo. 4634

Hab. in fragmentis ligneis Fagi silvaticæ, Poix Galliæ.

Sect. 4. Scolecosporæ.

STICTIS Pers. — Syll. VIII, p. 681.

1. **Stictis emarginata** Cooke et Mass. Grev. XVIII, p. 7. — Minutissima, gregaria, epiphylla; ascomatibus immersis, erumpentibus, poro pertusis, excipulo vero destitutis; ascis clavato-cylindricis, sessilibus; sporidiis filiformibus, continuis, hyalinis, ascos æquantibus, 70-75 ≃ 2. 4635

Hab. in foliis Eucalypti, Victoria Australiæ (Mrs. Martin).

2. **Stictis hypodermia** Bres. Rev. Myc. 1891, p. 21, t. 114, f. III. — Ascomatibus subsolitariis v. 3-4-gregariis, profunde immersis, bene evolutis, urceolatis, extus nigris, disco cinereo, limbo elevato, candido, tomentoso cincto, circ. $^3/_4$ mm. lat.; ascis cylindraceis, substipitatis, 8-sporis, 400-600 ≃ 8-11; sporidiis hyalinis, filiformibus, flexuosis, pluriguttatis, asco fere æquilongis, 1-1,5 μ. lat.; paraphysibus filiformibus, ascos superantibus, ramulosis, 1-1,5 μ. lat. 4636

Hab. ad ramos Ulmi campestris pr. stroma Cryptosporellæ hypodermiæ, Leutschau Hungariæ (V. Greschik). — *St. radiatæ* affinis, margine integro, disco albido et sporidiis duplo longioribus diversa.

3. **Stictis dryophila** C. et Ell. Grev. V, p. 33, t. 75, f. 6. — Sparsa, pallida, extus pruinosa, margine primum dentata; disco plano; ascis cylindraceis; sporidiis distichis, cylindraceis, utrinque subattenua- 4637

tis, obtusis, multiguttatis, 180 ≃ 12; paraphysibus filiformibus, copiosis, flexuosis.

Hab. ad ramulos querneos, New Jersey Amer. bor.

4. **Stictis parasitica** E. et E. Journ. Myc. 1888. p. 54. — Erumpens, minuta, 1/6 mm. diam., margine sordide albo, fimbriato-scutato, tandem expanso; ascis clavato-cylindraceis, substipitatis, 25-30 ≃ 5-6, copiose paraphysatis; sporidiis distichis, oblongo-ellipsoideis, hyalinis, continuis, 6-8 ≃ 2,5. 4638

Hab. in stromate Diatrypes tremellophoræ, Newfield New-Jersey Amer. bor. — Stroma *Driatrypes* cum cortice adjacente pilis erectis, fragilibus, 250-300 μ. long. obsitum.

SCHIZOXYLON Pers. — Syll. VIII, p. 697.

1. **Schizoxylon tuberculatum** Schw. Syn. Am. bor. n. 2172. — Sparsum, in tuberculis ligneis valde elevatis, circumcirca cinerescentibus situm; ascomatibus tuberculis immersis, aterrimis; disco demum rotundo aperto; sporidiis v. ascis mox profluentibus. 4639

Hab. in palis ex ligno Robiniæ factis, non raro Bethlehem Amer. bor. — Ascomata demum secedentia, foveolam in tuberculo relinquunt.

NEMACYCLUS Fuck. — Syll. VIII, p. 701.

1. **Nemacyclus hysterioides** Bomm. Rouss. Sacc. Contr. Myc. Belg. IV, p. 29. — Ascomatibus sparsis, cupuliformibus, initio subclausis, dein convexis, nigricantibus, intus albo-hyalinis, suborbiculatim dein hysterioideo-dehiscentibus, margine flavo-viridi zonato; ascis anguste clavatis, basi nodulosis, apice angustatis, octosporis, 145-180 ≃ 15; sporidiis filiformibus initio strato tenui mucoso obvolutis, 135-160 ≃ 3, parallelis, mox spiraliter contortis, subcontinuis. 4640

Hab. in squamis strobilorum Pini silvestris, Bois de la Cambre et Groenandael Belgii. — Affinis *N. griseo* et *N. niveo.*

2. **Nemacyclus fimbriatulus** Sacc. Bomm. Rouss. Contr. Myc. Belg. III, p. 7. — Ascomatibus sordide albis, subcarnosis, innatis, dein superficialibus, dense gregariis, planiusculis, 1/2 mm. diam., margine inæquali, leniter albo-fimbriato; ascis cylindraceis, breviter stipitatis, apice rotundatis, 120-130 ≃ 10; paraphysibus filiformibus, guttulatis cinctis; sporidiis bacillaribus, supra rotundatis, basi angustioribus, sæpe curvulis, 90-100 ≃ 1,7-2, pluriguttatis. 4941

Hab. in ligno putrido Abietis, Westmalle Belgii. — Species, quoad ascomata dein subsuperficialia, *Gorgonicipiti* affinis.

Fam. **Phacidiaceæ** Fr.

Sect. 1. Hyalosporæ.

CRYPTOMYCES Grev. — Syll. VIII, p. 707.

1. **Cryptomyces? disciformis** Fr. Summa p. 372, *Tremella discifor-* 4642
mis Fr. S. M. II, p. 216. — Erumpens, plana, subrotunda, levis, albida, demum nigrescens; ascis amplis paraphysatis.

Hab. ad ramos tenuiores Tiliæ in Suecia. — Epidermidem laceratam cingentem non superat, 1 mm. cr. glaber, albido-subincarnatus demum nigrescens, subrugosus. « Quid sit non satis patet ».

PHACIDIUM Gr. — Syll. VIII, p. 709.

1. **Phacidium verecundum** Bomm. Rouss. Sacc. Contr. Myc. Belg. IV, 4643
p. 233. — Ascomatibus laxe gregariis, subepidermicis, erumpentibus, diu clausis, hemisphærico-discoideis, subcoriaceis, 0,5-0,7 mm. lat., atris, margine subangulosis, demum fatiscentibus et discum planiusculum sordide griseo-carneum ostendentibus; ascis clavatis; longe stipitatis, apice rotundatis, 8-sporis, 150-160 ≃ 12-14, p. spor. 75-90 μ. long.; sporidiis oblique monostichis, ovoideo-oblongis, hyalinis, 2-guttatis, 15-22 ≃ 7-9; paraphysibus filiformibus, hyalinis.

Hab. in ramulis emortuis Cratægi Oxyacanthæ, Groenendael Belgii. — Affine *Ph. salicino* et *pusillo*.

2. **Phacidium luridum** (Berk. et Curt.) Phil. Grev. XIX, p. 75, *Patel-* 4644
laria B. et C. in herb. Berkel. — Congregatum, sæpe contiguum, epidermide tectum dein erumpens, orbiculare, nigrum, rugosum, demum vertice irregulariter dehiscens; disco concavo, cinereo; ascis clavatis, 90 ≃ 5, octosporis; sporidiis oblongo-ovatis, continuis, 10-14 ≃ 4; paraphysibus filiformibus.

Hab. in ramis in Pensylvania (Doct. Michener). — Ascoma superne cum epidermide non vere concretum.

3. **Phacidium Phillyreæ** Pass. F. N. IV. n. 34. — Hypophyllum, orbicu- 4645
latum, nigricans, in lacinias tres-sex dehiscens; ascis tubulosis basi breviter attenuatis, paraphysibus filiformibus subæquantibus, inferne pallidis, superne cinnamomeis obvallatis, 8-sporis, 52-62 ≃ 7; sporidiis subfusiformibus, integris, hyalinis, oblique monostichis, 10 ≃ 2,5-3.

Hab. in foliis dejectis Phillyreæ variabilis, Porto di Veruda Istriæ merid. (Solla)

4. **Phacidium verrucosum** (Wallr.) Sacc. Syll. VIII, p. 717, Bomm. Rouss. Contr. Myc. Belg. IV, p. 31. — Asci cylindraceo-subclavati, sessiles, 50-60 × 5-6; sporidia hyalina, ellipsoidea, subinde apicibus angustata, 6-7 × 2,5-3, obsolete 2-guttata. — Nascitur quoque in caulibus Galii et Asperulæ odoratæ, Poix Galliæ.
5. **Phacidium multivalve** K. et S. — Syll. VIII, p. 710, Bomm. Rouss. Contr. Myc. Belg. IV, p. 31. — Sporidia subfusoidea, 12 × 5, hyalina dein brunnea et eguttata. — Nascitur quoque in foliis Ilicis Aquifolii, Stoumont Belgii.
6. **Phacidium mirabile** Cooke Grev. XIX, p. 75. — Sparsum, subsuperficiale, 0,5-1,5 mm. d. initio lentiforme, clausum, demum inæqualiter dehiscens et discum atro-brunneum ostendens; excipulo submembranaceo; ascis clavatis, apice acutatis, octosporis, 95 × 10; sporidiis linearibus, acutis, rectis curvulisve, hyalinis, 2-8-guttulatis, 35-50 × 3-4; paraphysibus filiformibus, apice paullo crassioribus. 4646

Hab. in charta vetusta herbarii «Cryptogamas Lugdunenses» sistentis (J. J. Therry). — «An hujus generis?».
7. **Phacidium pusillum** Lib. — Syll. VIII, p. 716. — Oudem. in Hedw. 1891, p. 248, *Cryptodiscus pusillus* (Lib.) Rehm in Hedw. 1891, p. 252, *Cr. cæruleo-viridis* Rehm in Bref. Unters. X, p. 280, t. X, f. 19-20. — Species adhuc disputata vel duplex. Cl. Oudem. l. c. describit inter Phacidiaceas sporidiis continuis, epithecio non sed matrice virente; cl. Rehm l. c. e contra habet ut Stictidaceam sporidiis 1-septatis, epithecio et matrice virente. Ubi characteres postremi occurrant, species, meo sensu, *Propolidium pusillum* nuncupanda. 4647

TROCHILA Fr. — Syll. VIII, p. 728.

1. **Trochila Laurocerasi** (Desm.) Fr. — Syll. VIII, p. 729. — ? Var. **punctiformis** (Wallr.) *Phacidium punctiformis* Wallr. Crypt. n. 2303. — Ascomatibus innatis, orbiculatis, punctiformibus, minutissimis, gregariis, rugulosis, nigris, dein verticem scissum abjicientibus discumque hyalino-viridulum planum, limbo nigro crenulato cinctum recludentibus. 4648

Hab. ad inferiorem Pruni Padi foliorum languidorum paginam in Germania.

Sect. 2. Didymosporæ.

KEITHIA Sacc. nov. gen. (Etym. a rev. Dr. Keith mycologo anglico).

— Ascomata erumpentia, in lacinias 3-4 fissa, disco nigro. Asci clavati, 4-spori, paraphysati. Sporidia prope basin 1-septata, ellipsoideo-ovata, brunnea. — Est *Phacidium* phæodidymum.

1. **Keithia tetraspora** (Phill.) Sacc. *Phacidium* Phill. Disc. p. 388. 4649
— Epiphylla, erumpens, orbicularis v. oblonga, convexa, 1. mm. lat., cinerea, macula flavo-brunneola insidens, in lacinias 3-4 irregulariter fissa; disco extus nigro, intus flavo-brunneolo; ascis late clavatis, 4-sporis; sporidiis ellipsoideo-ovatis, prope basin 1-septatis, sæpe papilla præditis, 25-28 ≃ 17, brunneis; paraphysibus numerosis, filiformibus, apice piriformibus brunneisque, septatis.

Hab. in foliis vivis Juniperi, Forres Britanniæ (Rev. Dr. Keith).

FABRÆA Sacc. — Syll. VIII, p. 735.

1. **Fabræa Rousseauana** Sacc. et Bomm. Contr. Myc. Belg. III, p. 6. 4650
— Ascomatibus carneo-roseis, dein brunneis, sessilibus, $^1/_3$ mm. diam., amphigenis, macula albo-griseola insidentibus; ascis breve stipitatis, clavatis, 51 ≃ 15; sporidiis 1-2-stichis, ellipsoideis, hyalinis, sæpe 2-guttatis, 18 ≃ 6-8; paraphysibus numerosis, gracilibus; ascis longioribus, septatis, leniter flexuosis.

Hab. ad folia viva Calthæ palustris, Ottignies in Belgio.

2. **Fabræa rhytismoides** (C. et M.) Sacc. *Phacidium rhytismoideum* 4651
Cooke et Mass. Grev. XVIII, p. 81. — Ascomatibus pseudostromate gregatim insertis, sæpe senis octonisve, minutis, extus atro-brunneis, disco pallide cinereo, siccis subclausis, demum totis piceo-brunneis et tunc *Rhytisma* æmulantibus; ascis clavatis, copiose paraphysatis; sporidiis cylindraceis, utrinque obtusis, 1-septatis, hyalinis, 16-18 ≃ 3-4.

Hab. in foliis viventibus Cotulæ, Macedon Australiæ (Mrs. Martin).

COCCONIA Sacc. — Syll. VIII, p. 738.

1. **Cocconia discoidea** Cooke et Mass. Sacc. *Rhytisma* C. et M. Grev. 4652
XIX, p. 48. — Orbicularis, convexa 1-1$^1/_2$ mm. diam, atra, glabra, subnitida, intus olivacea; ascis clavatis, subsessilibus, octosporis; sporidiis oblongis, uniseptatis, medio leniter constrictis, dilute olivaceis, 22 ≃ 5.

Hab. in foliis Veronicæ ellipticæ in Nova Zelandia (Kirk).

Sect. 3. Scolecosporæ.

COCCOMYCES De Not. — Syll. VIII, p. 744.

1. **Coccomyces viridis** (Rich.) Sacc. *Phacidium viride* Rich. Cat. Champ. Marn. n. 1041. — Ascomatibus primo clausis, dein in lacinias 4–5 dehiscentibus, extus pallide brunneis, 1-2 mm. lat.; disco atro-viridi; ascis clavatis, 8-sporis; sporidiis acicularibus, guttulatis, 40 μ. long.; paraphysibus simplicibus, hyalinis, asco sublongioribus, superne epithecio brunneolo tectis. 4653

   Hab. in ramulis denudatis Populi, St.-Amand Galliæ.

2. **Coccomyces leptosporus** Speg. Guar. I. p. 138. — Maculis sordide albis v. fuscescenti-pallidis, irregulariter expansis, linea tenuissima, nigra, dense sinuosula limitatis, majusculis, subconfluentibus ac sæpe folium totum occupantibus; ascomatibus atris, in macula sparsis, tri-tetragonis, 400-600 μ. diam., primo clausis, subhemisphæricis, dein 4-laciniato-fissis, apertis; disco sordide ceraceo-flavescente, contextu minute parenchymatico, atro-fuligineo; ascis cylindraceo-clavulatis, apice subcuneatis, crassiuscule tunicatis, basi attenuatis, brevissime crassissimeque pedicellatis, 75-80 = 5; sporidiis octonis, ascorum longitudine, filiformibus, utrinque obtusiuscule acutatis, multiguttulatis, hyalinis, 70 = 1. 4654

   Hab. ad folia emortua putrescentia Laurineæ cujusdam in silvis pr. Guarapi Brasiliæ.

RHYTISMA Fr. — Syll. VIII, p. 752.

1. **Rhytisma hypoxanthum** B. et Br. Fung. Brisb. II, p. 71. — Forma stylosporica; maculis irregularibus, nitenti-nigris, margine distincte definitis, hinc illinc subgranulosis, e folio uniformiter incrassato, flaccido oriundis; basidiis in interiore parte granulorum insertis, brevibus, filiformibus; sporulis oblongis, 7,5 μ. long. 4655

   Hab. in foliis quibusdam, Brisbane Australiæ (F. M. Bailey).

DUPLICARIA Fuck. — Syll. VIII, p. 764.

1. **Duplicaria cochinchinensis** Karst. et Harv. Rev. Myc. 1890 Oct. — Ascomatibus convexulis subdimidiatis disco, cum epidermide matricis tegente late nigro-maculata concreto, confluentibus, crustulam carbonaceam, nigram, nitidam, suborbiculatam, 2-3 mm. latam constituentibus, demum ore apertis vel sinuoso-dehiscentibus; ascis subclavato-cylindraceis, subsessilibus, octosporis, membrana crassa, 4656

circ. 120 ≈ 18–20; sporidiis distichis, oblongatis, utrinque obtusis, rectis, subinde medio constrictis vel inæquilateralibus, guttulis minutissimis repletis, hyalinis, 18–21 ≈ 7; paraphysibus gracillimis, ramosis.

Hab. in foliis coriaceis, Laos Cochinchinæ (Godefroy-Lebeuf).

Fam. 8. **Patellariaceæ**

Sect. 1. Hyalosporæ

PATINELLA Sacc. — Syll. VIII, p. 769.

1. **Patinella punctiformis** Rehm Disc. p. 311. — Gregaria, dein cyathiformis, nigra, ceracea, sicca dura, subrugosa, margine aspera- 4657
ta, 0,2-0,4 mm. lat.; ascis 6-8-sporis, 60–70 ≈ 15-20; sporidiis ellipsoideis, membrana crassa, 12–15 ≈ 5–6; paraphysibus supra usque ad 5 μ. lat. et brunneis.

Hab. ad corticem Pinus in Franconia.

2. **Patinella atro-viridis** Rehm Disc. p. 312. — Ascomatibus spar- 4658
sis, raro gregariis, dein applanato-patelliformibus, demum disco gibbérulis, nitenti-nigris, 0,3–1,2 mm. lat., firme corneis; ascis 40-45 ≈ 6-7; sporidiis elongatis, obtusis, 6–8 ≈ 2-2,5; paraphysibus supra usque ad 5 μ. lat., brunneo-viridulis.

Hab. in trunco decorticato Pini Cembræ, Ortler supra Sulden Tiroliæ.

3. **Patinella incerta** (Mass.) Rehm Disc. p. 314, *Xylographa* Mass. 4659
Miscell. lich. p. 17. — Ascomatibus thallo tenuissimo albido insertis, linearibus, rectis, rimose, dehiscentibus, udis convexis, castaneo-atris, siccis nigris, disco farinoso-verruculoso; ascis clavatis, octosporis; sporidiis ovoideis, continuis, granulosis, 12 ≈ 6; paraphysibus supra brunneis.

Hab. in ligno vetusto in Italia et Germania. — Ob ascoma lineare vix, meo sensu, *Patinellæ* species. Teste Rehm loc. cit. verisimiliter huc spectat *Xylogr. laricicola* Nyl. Fl. 1865, pag. 13, ex Scotia.

4. **Patinella xenophona** (Körb.) Rehm Disc. pag. 315, *Placographa* 4660
Körb. Par. p. 464. — Ascomatibus acervulatis, subinde confluentibus, sessilibus, subrotundo-ellipsoideis, rarius linearibus, crasse marginatis, disco rivuloso v. plano, nigris 0,1-0,3 mm. long., 0,1 mm. cr.; ascis late clavatis, octosporis; sporidiis ellipsoideis, con-

tinuis, hyalinis, 12–16 = 5-7; paraphysibus coalitis, supra olivaceo-brunneis.

Hab. in thallo Lecideæ in rupibus graniticis Risengebirge.

STARBAECKIA Rehm in Starb. Bidr. Sver. Ascom. p. 11, t. I, f. 10 *a–f* (Etym. a cl. mycologo STARBAECK). — Ascomata erumpenti-sessilia, primitus clausa, marginibus deinde ruguloso-gibberis patescentia. Asci cylindracei. Sporidia continua hyalina. Paraphyses ramosæ ascos superantes. — Hinc *Hehriquesiæ*, illinc *Pseudophacidio* affine genus.

1. **Starbaeckia pseudotryblidioides** Rehm loc. cit. — Ascomatibus 4661
sparsim gregariis interdum 2-3 confertis, e ligno denudato erumpentibus, sessilibus, atris, oblongo- vel orbiculari-disciformibus, primitus clausis, deinde marginibus gibberis et rugosis apertis, ½–1 mm. diam.; ascis cylindraceo-subclavatis, sursum obtusis, deorsum angustatis, subsessilibus, 8-sporis, 80–100 = 4-5,5; sporidiis monostichis interdum superne subdistichis, ellipsoideo-fusiformibus, rectis vel leniter curvulis, hyalinis, endoplasmate grumuloso, utrinque obtusiusculis, 9–15 = 2,5-3,5; paraphysibus numerosissimis, gracilibus, flexuosis, ramosissimis, hyalinis, agglutinatione autem olivascentibus et supra ascos epithecium sub lente olivaceo-fuscum formantibus.

Hab. ad lignum pineum induratum ad Dufhult, par. Simonstorp, Oestergötland (leg. HAGLUND).

NESOLECHIA Mass. Misc. lich. p. 13, Rehm Disc. pag. 315 (Etym. *nesos* insula et *lechos* lectus, thallus). — Ascomata parasitica, primo innata, dein erumpentia, vel ab initio sessilia, nigra, firme ceracea, disco patellato, dein subconvexo. Asci clavati, supra rotundati, 8-spori, paraphysati. Sporidia clavata, ovoidea vel fusoidea, continua, hyalina.

1. **Nesolechia oxyspora** (Tul.) Mass. l. c. p. 13, Rehm l. c. — Ascoma- 4662
tibus applanatis v. convexis, circularibus, nigris opacis, 0,2-0,3 mm. diam ; ascis clavulato-ovatis, 40–65 = 14-18; sporidiis distichis, ellipsoideis, rectis, continuis, 2-guttatis, hyalino-flavidulis, 15–22 = 5–7; paraphysibus ramosis, apice læte brunneis.

Hab. in thallo Platysmatis, Imbricariæ, Everniæ in Germania, Italia, Fennia, etc.

2. **Nesolechia oxysporella** (Nyl.) Rehm loc. cit. p. 316, *Lecidea* Nyl. 4663
En. lich. p. 127. — Ascomatibus applanato-patelliformibus, 200–

250 μ. diam.; ascis crasse tunicatis, 25-40 ≃ 9; sporidiis distichis, elongato-fusoideis, rectis, 1-2-guttulatis, 6-8 ≃ 2; paraphysibus ramosis, supra usque ad 3 μ. incrassatis.

Hab. in thallo Cladoniæ in Germania et Italia bor.

3. **Nesolechia thallicola** (Mass.) Rehm loc. cit. p. 317, *Lecidea* Mass. Ricerch. p. 78, f. 157. — Ascomatibus applanato-patelliformibus, dein subconvexis, disco minute verrucosis, nigris v. nigro-brunneis, 200-300 μ. lat.; ascis ovoideo-clavatis, crasse tunicatis, 36-40 ≃ 18; sporidiis distichis ellipsoideo-ovoideis, 6-9 ≃ 5; paraphysibus supra incrassatis. 4664

Hab. in thallo Imbricariæ in Silesia.

4. **Nesolechia vermicularis** Arnold Flor. 1874, p. 100. — Ascomatibus initio nodulos flavidos in thallo formantibus, immersis, dein disco applanato v. subconvexo, 80-100 μ. lat.; ascis cylindraceo-clavatis, crasse tunicatis, 70 μ. long.; sporidiis monostichis, ex ovato ellipsoideis, sæpe obtuse fusoideis, 4,8-11 ≃ 3-5; paraphysibus filiformibus, hyalinis; epithecio nullo, hypothecio tenui, flavido. 4665

Hab. in Thamnolia vermiculari in Tirolia.

5. **Nesolechia supersparsa** (Nyl.) Rehm loc. cit. p. 318, *Lecidea* Nyl. Flor. 1865, p. 7. — Ascomatibus gregariis, applanato-patelliformibus, cæruleo-nigris, 300-500 μ. lat.; ascis clavatis, crasse tunicatis, 45-50 ≃ 15; sporidiis distichis rhomboideo-ellipsoideis, uno apice v. utrinque subacuminatis, centro sæpe ample 1-guttulatis, 10-12 ≃ 5-7; paraphysibus ramosis, supra usque ad 6 μ. cr., cœrulescentibus. 4666

Hab. in thallo et apotheciis Lecanoræ in Helvetia, Tirolia et Algau.

6. **Nesolechia aggregatula** (Müll.) Rehm loc. cit. p. 318, *Lecidea* Müll. Arg. Flor. 1874, p. 533. — Ascomatibus aggregatis v. sparsis, convexulis, tenui-marginatis, nigris, opacis, 0,2-0,4 mm d.; ascis ovato-oblongis, rotundatis, 4-8-sporis; sporidiis distichis oblongis, obtusis, hyalinis, continuis, 10-12 ≃ 3-4; paraphysibus concretis, supra brunneis v. virentibus. 4667

Hab. in thallo Lecanoræ et Placodii in Helvetia, Tirolia.

7. **Nesolechia vitellinaria** (Nyl.) Rehm Disc. pag. 319, *Lecidea* Nyl. Bot. Not. 1852, p. 177. — Ascomatibus gregariis, convexulis, tenui-marginatis, atro-nitidulis 0,2-0,7 mm. diam.; ascis crasse tunicatis, clavatis, 40-50 ≃ 18-20, octosporis; sporidiis distichis ellipsoideis, 7-10 ≃ 5-6, hyalinis, 1-guttatis; paraphysibus coalitis supra cyanescentibus. 4668

Hab. in thallo Candelariæ in Germania, Helvetia et Tirolia.

8. **Nesolechia inquinans** (Tul.) Mass. Misc. lich. pag. 13, Rehm Disc. p. 320, *Abrothallus* Tul. Mem. lichen. p. 117, t. 14, f. 4. — Ascomatibus sparsis v. confluentibus, convexulis immarginatis, 0,3 mm. lat.; ascis clavatis 40-45 ≃ 11-13, 4-8-sporis; sporidiis distichis ovato-ellipsoideis, hyalinis, continuis, pluriguttatis 9-12 ≃ 4-6; paraphysibus coalitis supra atro-brunneis. 4669

Hab. in thallo sterili Bæomycetis in Germania et Gallia.

9. **Nesolechia Bruniana** Müll. Arg. Flora 1875, p. 62, Rehm Disc. p. 320. — Ascomatibus convexulis, rugulosis, brunneo-nigris, 0,2–0,3 mm. lat.; ascis subovatis, obtusis 40 μ. long., 6-8-sporis; sporidiis ellipsoideis, obtusis, hyalinis, 10-12 ≃ 6-8; paraphysibus simplicibus v. furcatis supra cyanescentibus. 4670

Hab. in verrucis thallinis Thalloidimatis in Helvetia. — Forte ad hoc genus spectat quoque *Lecidea intumescens* Flörke. Cfr. Rehm Disc. p. 321.

Sect. 2. Phæosporæ.

LAGERHEIMA Sacc. nov. gen. (Etym. a cl. G. Lagerheim, suecico, nunc in Univers. Quitensi Æquatoriæ Bot. prof.) — Ascomata patellata, marginata, sessilia, atra. Asci octospori, paraphysati. Sporidia e sphæroideo ellipsoidea, continua, brunnea. — Est *Patinella* phæospora.

1. **Lagerheima sphærospora** (B. et. C.) Sacc., *Patellaria sphærospora* B. et C. Phill. in Grev. XVIII, p. 85, Sacc. Syll. VIII. pag. 790 (nomen). — Sparsa v. conferta, applanata, marginata, atra, tenuis, 1-2 mm. lata; ascis tereti-clavatis, octosporis; sporidiis subsphæroideis v. ellipsoideis v. subpiriformibus, brunneis, 1-guttatis, 7–9 μ. diam., v. 10 ≃ 6; paraphysibus filiformibus. 4671

Hab. in ligno putri in Carolina infer. Amer. bor. (Curtis) et New Forest, Hampshire Britanniæ (Miss Beatrice Taylor).

2. **Lagerheima Carteri** (Berk.) Sacc. *Patellaria Carteri* (Berk.) Phil. Grev. XIX, p. 75 ex herb. Berk. — Conferta, difformis, patellata, 2-4 mm. lata; disco nigro, margine involuto, brunneo-nigro, substantia concolore; ascis cylindraceis, basi attenuatis, octosporis; sporidiis ellipsoideis, brunneis, 10 ≃ 5; paraphysibus filiformibus, sursum incrassatis cohærentibusque. 4672

Hab. in ligno decorticato emortuo, Bombay Indiæ (H. J. Carter).

Sect. 3. Didymosporæ.

KARSCHIA Körb. — Syll. VIII, p. 779.

1. **Karschia melaspileoides** Rehm Disc. p. 347. — Ascomatibus sparsis, mox plano-scutellatis, crasse marginatis, nigro-purpureis, siccis contractis nigris 0,2-0,4 mm. diam.; ascis clavatis, 50-60 × 15-18, octosporis; sporidiis distichis clavato-ellipsoideis, 1-septatis, leniter constrictis, 2-guttatis, brunneis, 15-17 × 5-6; paraphysibus ramosis, 3 μ. cr., supra flavidis. 4673

   Hab. in cortice quercino pr. Sugenheim Germaniæ.

2. **Karschia cratincola** Rehm Disc. p. 348. — Ascomatibus in maculis dilatatis, albidis sparsis, cyathiformibus, tenuiter marginatis, 0,15-0,3 mm. lat.; ascis ovoideis, 4-6-sporis, circ. 60 × 36; sporidiis polystichis, ellipsoideo-clavatis, obtusis, medio subconstrictis, 30-36 × 10-14; paraphysibus circ. 1,5 μ. lat., epithecium brunneolum efformantibus. 4674

   Hab. in ligno salicino pr. Burgdorf in Helvetia (Wegelin).

3. **Karschia perexigua** Bomm. Rouss. Sacc. Contr. Myc. Belg. IV, p. 235. — Ascomatibus sparsis, sessilibus, concavis, nigro-opacis, 0,4-0,6 mm. diam., margine inflexis, inter fibras matricis dispositis; ascis clavatis v. oblongis, 4-8-sporis, 30-45 × 10-15; paraphysibus filiformibus apice capitulo demum viridi-fuligineo terminatis; sporidiis distichis v. conglobatis, ellipsoideis, subinde curvulis, 1-septatis, non constrictis, 8-12 × 5,5-6, brunneis, non guttulatis. 4675

   Hab. inter fibras foliorum Ammophilæ arenariæ, Knocke Ostende Belgii.

4. **Karschia Urceolariæ** (Nyl.) Rehm Disc. p. 356, *Lecidea* Nyl. Flora 1873, p. 298. — Ascomatibus gregariis, erumpentibus, demum patelliformibus, margine crasso et inciso, nigris, non nitentibus, 0,2-0,5 mm. lat.; ascis ovoideis, apice valde incrassatis, 60 × 15; sporidiis ovoideis v. ellipsoideis, obtusis, medio plerumque valde constrictis, brunneis, 12-18 × 5-7; paraphysibus 3 μ. lat., supra atro-brunneis et 6 μ. cr. 4676

   Hab. in thallo Urceolariæ pr. Silz Tiroliæ (prof. Lojka).

5. **Karschia allothallina** (Nyl.) Rehm Disc. p. 351, *Lecidea* Nyl. Flora 1881, p. 188. — Ascomatibus gregariis, cyathiformibus, demum applanato-patelliformibus, tenuiter marginatis, 0,3-1 mm. lat.; ascis 45-50 × 10-12; sporidiis elongatis, obtusis, rectis, medio sæpe con- 4677

strictis, nigrescenti-brunneis, 8–14 = 3–5; paraphysibus supra 5 μ. cr., epithecium crassum, flavo-brunneum efformantibus.

Hab. in crusta Bæomycetis in Germania et Helvetia.

6. **Karschia rimulicola** (Müll. Arg.) Rehm Disc. p. 352, *Lecidea* Müll. Arg. Flora 1872, p. 500. — Ascomatibus applanato-patelliformibus, distincte crasseque marginatis, non nitentibus, 0,25–0,5 mm. cr.; ascis elongato-ovoideis, supra obtusatis, 35 μ. long.; sporidiis æqualiter bilocularibus, septo mediocriter constrictis, brunneis, 6–10 = 3–5; paraphysibus epithecium crassum, brunneum efformantibus. 4678

Hab. in protothallo Pertusariæ in Helvetia (Mueller).

7. **Karschia vagans** (Muell. Arg.) Rehm Disc. p. 352, *Lecidea* Muell. Arg. Flora 1872, p. 501. — Ascomatibus valle convexis v. hemisphæricis, margine initio distincto, dein nullo, cæruleo- vel griseo-nigris, non nitentibus, 0,2–0,25 mm. lat.; ascis ovoideis, 45–50 μ. long.; sporidiis omnino obtusis, medio constrictis, brunneis, 9–10 = 5–7; paraphysibus filiformibus, epithecium nigro-brunneum efformantibus. 4679

Hab. in thallo et apotheciis Lecanoræ in Helvetia (Mueller).

8. **Karschia saxatilis** (Schær.) Rehm Disc. p. 350, *Calicium* Schær. Enum. lich. pag. 166. — Ascomatibus sparsis v. gregariis, erumpentibus, cyathiformibus, dein applanatis, crasse marginatis, subnitenti-nigris, 0,2–0,7 mm. lat.; ascis 45–50 = 10–12; sporidiis elongatis v. clavatis, obtusis, rectis, 10–12 = 4–5, brunneis; paraphysibus laxis, circ. 3 μ. lat., supra brunneo-viridibus et 6 μ. cr. 4680

Hab. in thallo Aspiciliæ et Placodii in Helvetia et Tirolia.

9. **Karschia thallophila** (Ohlert) Rehm Disc. p 353, *Lecidella* Ohlert Lich. Preuss. p. 48. — Ascomatibus sessilibus, convexis, marginatis demum immarginatis, nigricantibus, 1 mm. diam.; ascis anguste clavatis; sporidiis 1-septatis, obtusis, brunneis, 12–15 = 6–8; paraphysibus laxis, supra brunneis. 4681

Hab. in thallo Physciæ ad Tiliam in Borussia.

10. **Karschia leptolepis** (Bagl.) Muell. Arg. in Flora 1872, pag. 500, Rehm Disc. p. 354 *Buellia* Bagl. et Car. in Comm. critt. it. II, p. 83. — Ascomatibus nitidulis, 0,3–0,4 mm. lat.; sporidiis globoso-ellipsoideis, utrinque obtusis, 6–9 = 4–6; paraphysibus coalitis apice epithecium atro-brunneum formantibus. 4682

Hab. in thallo Placodii in M. Rosa Ital. bor. (De Candolle).

11. **Karschia scabrosa** (Ach.) Rehm Disc. pag. 350, *Lecidea* Ach. Meth. lich. p. 48. — Ascomatibus sæpe conferte gregariis, thallo 4683

crustaceo maculas 1-2 cm. lat., flavidas v. viridulas efformante, insidentibus, initio subcavo et tenuiter marginatis, dein convexis et immarginatis, nigrescentibus, 0,2–0,7 mm. lat.; ascis 45–50 ≃ 15–17; sporidiis elongatis, obtusis, medio sæpe constrictis, brunneis, 9–12 ≃ 4–5; paraphysibus supra 5 μ. lat. et viridulis.

Hab. in Sphyridio et Bæomycete in Germania et Helvetia.

12. **Karschia Sphyridii** Stein in Rehm Disc. p. 355. — Ascomatibus 4684
crassis, applanatis, marginatis, atro-nitidis, minutis; ascis clavatis, 8-sporis; sporidiis biscoctiformibus, 1-septatis, brunneis, 9-10 ≃ 4-5; paraphysibus filiformibus.

Hab. in thallo Sphyridii in Silesia. — Var. **epiconcolor** Bagl. et Car. Anacr. Vals. p. 288, t. III, f. 47 (*Buellia*): ascomatibus convexis, nigris; sporidiis soleiformibus utrinque obtusis, brunneolis, 10-14 ≃ 5-6; paraphysibus concretis. In thallo Placodii pr. Riva Tiroliæ.

13. **Karschia Bayerhofferi** (Schær.) Rehm Disc. p. 354, *Lecidea badia* 4685
var. *Bayerhofferi* Schær. Enum. lich. p. 324. — Ascomatibus sparsis v. gregariis, innato-erumpentibus dein superficialibus, 0,3-0,8 mm. lat., patellatis, tenui-marginatis, demum convexis, nigris, nitidulis; ascis clavatis, 50-60 ≃ 15, octosporis; sporidiis distichis, oblongis obtusis, 1-septatis, sæpe 2-guttatis, brunneis, 10-12 ≃ 5-6; paraphysibus concretis, septatis supra flavo-brunneis.

Hab. in thallo Imbricariæ in Germania, Bohemia, Tirolia.

MELASPILEA Nyl. Prodr. Lich. p. 170, Rehm Disc. pag. 362 (Etym. *melas* niger et *spilos* macula). — Ascomata innato-superficialia, sessilia, initio globulosa, clausa, mox inæqualiter elongata v. elliptica, plana marginata, dein convexa immarginata. Asci crassi, octospori. Sporidia ovata v. clavulata, 1-septata ex hyalino brunneola.

1. **Melaspilea arthonioides** (Fée) Nyl. Prodr. pag. 170. Rehm Disc. 4686
p. 362, *Lecidea* Fée Ess. p. 107, *Buellia* et *Abrothallus Ricasolii* Mass. — Ascomatibus in areis albidis sparsis, sessilibus, plano-convexulis, tenui-marginatis, rugulosis, 0,5–3 mm. lat., nigris; ascis clavatis, 60 ≃ 18-20, octosporis; sporidiis clavatis, obtusis, 1-septatis, constrictis, 15–18 ≃ 6–7, demum brunneis, paraphysibus coalitis, septatis, supra ramosis, brunneis.

Hab. in cortice Quercus, Ulmi in Helvetia, Germania, Italia.

2. **Melaspilea megalyna** (Ach.) Rehm Disc. p. 365, *Opegrapha ver* 4687
rucarioides β. *megalyna* Ach. Lich. un. p. 244. — Ascomatibus in areis albo–nitentibus gregariis v. acervatis, globoso-clausis, dein

varie elongatis, applanatis, brunneo-nigris, 0,1-0,5 mm. lat.; ascis ovatis, 45-50 ≃ 18-20, octosporis; sporidiis distichis clavato-ellipsoideis, æqualiter constricto-1-septatis, 2-guttatis, ex hyalino brunneolis, 15-18 ≃ 5-6; paraphysibus laxiusculis, ramulosis supra rubro-brunneis.

Hab. in cortice levigato Juglandis, Quercus, Fagi, Fraxini etc. in Germania, Suecia, Helvetia.

3. **Melaspilea Rhododendri** (Arn. et. Rehm) Almq. Arthon. pag. 44, Rehm Disc. p. 365, *Arthonia* Arn. et Rehm. — Ascomatibus areis pallentibus insertis, globosis clausis, mox lirelliformibus v. ramulosis, rimosis, nigris, 0,3-2 mm. long., 0,2 mm. lat.; ascis clavatis, apice rotundatis 30-40 ≃ 12-18, octosporis; sporidiis distichis ovoideis, bilocularibus, 2-guttatis, subinde 3-septatis, constrictis, 12-18 ≃ 6-7, hyalinis dein brunneolis; paraphysibus concretis supra brunneo-virentibus. 4688

Hab. in thallo Buelliæ ad ramos Rhododendri et Callunæ in Germania, Carniolia et Tirolia.

4. **Melaspilea emergens** (Fr.) Rehm Disc. pag. 363, *Hysterium* Fr. *Glonium* Duby Hyst. p. 36, Sacc. Syll. II, p. 734.

5. **Melaspilea proximella** Nyl. Norl. Torn. p. 349, Rehm Disc. p. 364, *Celidium* Karst. Sacc. Syll. VIII, p. 744.

6. **Melaspilea diaphorella** Nyl. Flora 1874, p. 316, Rehm Disc. p. 366. — Ascomatibus areis dealbatis insidentibus, oblongis v. triangularibus 2-3 mm. lat., concavis v. rimosis; ascis superne octosporis; sporidiis ovoideis, bilocularibus, hyalinis, 11-17 ≃ 6-8. 4689

Hab. in ligno fagineo in Borussia. — Dubia species.

7. **Melaspilea mycetoides** (Anz.) Nyl. Flora 1881, pag. 188, Rehm Disc. p. 366, *Buellia* Anz. Anal. p. 10 — Ascomatibus concavis, prominulo-marginatis, nigris; ascis late ellipsoideis v. clavatis, 6-sporis; sporidiis ellipsoideis, inæqualiter 2-locularibus, constrictis, hyalinis, 12-13 ≃ 6-7; paraphysibus gelatinoso concretis. 4690

Hab. in cortice Abietis pr. Bormio Ital. bor.

Sect. 4. Phragmosporæ.

DURELLA Tul. — Syll. VIII, p. 790.

1. **Durella connexa** Rehm Disc. p. 289. — Ascomatibus elongato-linearibus, rectis v. curvis, longitudinaliter rimosis, siccis margine involutis; ascis supra rotundatis, 70-80 ≃ 12-15; sporidiis polysti- 4691

chis, elongatis, 3-7-septatis, hyalinis, 25-36 ≃ 5-6; paraphysibus brunneis v. viridi-brunneis, supra usque ad 6 μ. cr.

Hab. in ligno fagineo pr. Oberstaufen in Algäu.

LECANIDION Rab. — Syll. VIII, p. 795.

1. **Lecanidion Dermatella** Bomm. Rouss. Sacc. Contr. Myc. Belg. IV, p. 33. 4692
— Ascomatibus gregariis, erumpentibus, sessilibus v. subsessilibus, 1-1,5 mm. diam., primitus obconicis dein subhemisphæricis margine prominulo obtusis, glabris, extus brunneo-nigricantibus, disco plano brunneo-olivaceo; ascis anguste clavatis, basi nodulosis, 96-105 ≃ 10-12; paraphysibus filiformibus, guttulatis, æqualibus; sporidiis distichis, fusoideis, sæpe curvulis, 3-4-septatis (sæpius 3-septatis) 20-27 ≃ 5, hyalinis, dein brunneolis.

Hab. in ramis Pruni spinosæ v. Cratægi Oxyacanthæ Laeken Begii. — Affine *L. fusco-atro* et *L. proximo.*

MYCOBILIMBIA Rehm Disc. p. 327 (Etym. quasi *Bilimbia* fungina). Ascomata parasitica, gregaria, sessilia, pallida v. nigra, firme ceracea, disco primo plano, marginato, dein convexo et immarginato. Asci clavati, supra rotundati, 8-spori, paraphysati. Sporidia disticha, ellipsoidea v. fusoidea, transverse 3-7-septata, hyalina. — Est quasi *Lecanidion* parasiticum.

1. **Mycobilimbia Killiasii** (Hepp) Rehm Disc. pag. 327, *Biatora* Hepp Jahresb. Ges. Bünd. 1860, p. 246. — Ascomatibus confertis, convexis, immarginatis, rubido-flavis v. griseo-atris, intus albis, 0,5 mm. lat.; ascis tate clavatis, 60-90 ≃ 16, octosporis; sporidiis polystichis, fusoideis, 3-7-septatis, hyalinis, 18-40 ≃ 5-8; paraphysibus coalitis supra brunneo-flavis. 4693

Hab. in thallo Peltigeræ in Germania.

2. **Mycobilimbia obscurata** (Somm.) Rehm Disc. p. 328, *Lecidea sphæroides* b. *obscurata* Somm. Suppl. p. 165. — Ascomatibus concavis, marginatis, demum convexis immarginatis, carneis, sæpe atrorubris, 0,8-1,5 mm. lat.; ascis clavatis, 50-85 ≃ 15, octosporis; sporidiis distichis elliptico-fusoideis, 3-5-septatis, hyalinis, 15-30 ≃ 5-8; paraphysibus coalitis supra brunneis. 4694

Hab. in thallo Peltigeræ in Germania et Tirolia.

3. **Mycobilimbia Subfuscæ** (Arnold) Rehm Disc. pag. 329, *Celidium* Arnold Flor. 1864, pag. 87. — Ascomatibus gregariis, globulosis, demum leniter convexis, tenui-marginatis, opace nigris, 0,2-0,7 mm. diam.; ascis clavatis 45-50 ≃ 15, octosporis; sporidiis distichis 4695

ellipsoideo-oblongis, 3-septatis, hyalinis 12-16 ≃ 3,5-4; paraphysibus filiformibus, liberis supra incrassatis, cyaneis.

Hab. in thallo Lecanoræ subfuscæ in Germania.

PATELLARIA Wahl. — Syll. VIII, p. 786.

1. **Patellaria lata** (Berk.) Phil. Grev. XIX, p. 75 ex herb. Berk. — 4696
Sparsa, plana v. subconcava, superficialis, 1 mm. lat., disco atro-brunneo, margine distincto pallidiore; ascis clavato-fusoideis, octosporis; sporidiis fusoideis 4-5-guttatis, brunneo tinctis, 25-30 ≃ 5; paraphysibus copiosis, filamentosis.

Hab. in ramis arborum in ins. Java (herb. Berk.). — Ascoma intus brunneum.

LECIOGRAPHA Mass. Gen. p. 14 (1854) Rehm Disc. p. 372 (Etym. quasi media inter *Lecideam* et *Graphen*), *Dactylospora* Körb. — Ascomata superficialia rotunda, sæpe elongata vel torta, clausa, dein aperta, applanata, marginata, nigra, ceraceo-firma. Asci clavati octospori, concreto-paraphysati. Sporidia oblonga v. clavata 3- rarius 5-7-septata, hyalina, dein brunnea.

1. *Mycolecidea* Karst. Saprophyticæ.

1. **Leciographa lecideina** Rehm Disc. p. 372. — Ascomatibus sparsis, patellatis, tenue acuteque marginatis, atro-nitidulis, 0,3-1 mm. diam.; ascis ellipsoideo-oblongis, 45-48 ≃ 10-12, octosporis; sporidiis distichis, cylindraceis, obtusis, 3-septatis, leniter constrictis, 9-10 ≃ 4; paraphysibus superne epithecium brunneum formantibus. 4697

Hab. in trunco decorticato Juniperi supra Franzenhöhe Tiroliæ.

2. **Leciographa parasemoides** Rehm Disc. p. 373. — Ascomatibus gregariis erumpenti-liberis, plano scutellatis, dein convexis, nigricantibus, 0.2-1,2 mm. diam.; ascis clavatis, rotundatis, 50-60 ≃ 9-10, octosporis; sporidiis distichis ellipsoideis, 3-septatis, brunneis, 10-12 ≃ 4-5; paraphysibus supra brunneis. 4698

Hab. in ramulis putridis Rhododendri ferruginei, Ortler Tiroliæ.

3. **Leciographa allotria** Rehm Disc p. 373. — Ascomatibus sæpius 2-4 acervulatis, brevissime stipitatis, scutellatis, raro convexis, marginatis, 0,5-1 mm. diam., sordide nigris, udis subgelatinosis; ascis clavato-ovatis, 54-50 ≃ 12-15, octosporis; sporidiis distichis elon- 4799

gatis, obtusis, 3-septatis, constrictulis 4-guttatis, 10-15 ≈ 5,6, brunneolis; paraphysibus supra incrassatis, brunneis.

Hab. in ramis quercinis, Sugenheim Germaniæ.

4. **Leciographa franconica** Rehm Disc. p. 373. — Ascomatibus gregariis, plano-scutellatis, tenui-marginatis, demum convexulis nitido-atris, 0,1-0,4 mm.; ascis clavatis, 40-45 ≈ 10-12; sporidiis distichis elongatis v. subellipsoideis, 3-septatis, constrictulis, 10-12 ≈ 4-5; paraphysibus furcatis, supra incrassatis brunneis. 4700

Hab. in ramis decorticatis Sambuci, Sugenheim Germaniæ.

2. *Dactylospora* Körb. Parasiticæ.

5. **Leciographa inspersa** (Tul.) Rehm Disc. p. 374, *Lecidea* Tul. Mem. lich. p. 118. — Ascomatibus gregariis, erumpentibus, applanato-patelliformibus, crasse immarginatis, dein subconvexis margineque revoluto, nigris, primo nitentibus, siccis sæpe subrugosis, 0,2-0,5 mm. lat.; ascis clavato-ovoideis, 40-45 ≈ 9-10; sporidiis distichis, elongato-cylindraceis, obtusis, 1- sæpius 3-septatis, sæpe 2-4-guttulatis, brunneis, 9-10 ≈ 3-3,5; paraphysibus supra 3 μ. crass. et brunneis. 4701

Hab. in thallo Lichenum crustaceorum, præcipue Pertusariæ, Ochrolechiæ etc., in Germania.

6. **Leciographa Zwackhii** Mass. Catagr. p. 679, Rehm Disc. p. 375. — Ascomatibus gregariis, erumpentibus, applanato-expansis, siccis tenuiter marginatis, subinde subpulverulentis, nigris v. nigro-rubentibus 0,2-0,5 mm. lat.; ascis 50-80 ≈ 18-25; sporidiis distichis, elongatis v. subclavatis, utrinque obtusis, rectis, 3- raro 4-5-septatis, ad septa subconstrictis, 15-25 ≈ 5-7; paraphysibus supra 5 μ. cr. et brunneis v. brunneo-viridibus, epithecium crassum efformantibus. 4702

Hab. in thallo Phlyctidis argenæ in Germania.

7. **Leciographa maculans** Arnold Zool.-bot. Verh. 1887, p. 126, Rehm Disc. p. 375. — Ascomatibus dense gregariis, lenticularibus, maculas rotundas, 0,5-1 cm. diam. efformantibus, erumpentibus, applanato-patelliformibus, margine tenui sæpeque inciso, nigris, non nitentibus, 0,5-1 mm. lat.; ascis clavatis, 70-90 ≈ 21-24; sporidiis polystichis, elongato-clavatis, obtusis, rectis, 3-septatis, plerumque 4-guttulatis, 21-22 ≈ 7-8; paraphysibus supra 5 μ. cr. et brunneis; epithecio crasso. 4703

Hab. in thallo Lecanoræ in Tirolia australi (Arnold).

8. **Leciographa attendenda** (Nyl.) Karst. Rev. Mon. p. 155, Rehm Disc. pag. 376. — Ascomatibus sparsis, applanato-patelliformibus, tenuiter marginatis, 0,15-0,3 mm. lat.; ascis circ. 50 × 15; sporidiis distichis elongatis v. elongato-ellipsoideis, 3-5-septatis, brunneo-nigris, 10-16 × 4; paraphysibus supra 4 μ. cr. et brunneis. 4704

Hab. in thallo Pilophori in Tirolia austr. (Arnold).

9. **Leciographa urceolata** (Th. Fr.) Rehm Disc. p. 376, *Buellia* Th. Fr. Lich. Arct. p. 233. — Ascomatibus erumpentibus, cyathiformibus, raro applanato-expansis, crassiuscule marginatis, 0,2-0,5 mm. lat.; ascis 40-45 × 15-17; sporidiis distichis, elongatis, obtusis, 3-5- raro 6-7-septatis, sæpe 4-8-guttulatis, brunneis, 15-23 × 5-6; paraphysibus supra dilute brunneolis. 4705

Hab. in thallo Microglœnæ, Lopadii, Rinodinæ, Ochrolechiæ, Blasteniæ, Biatoræ in alpinis Tiroliæ.

10. **Leciographa Stigma** Rehm Disc. p. 377. — Ascomatibus gregariis, erumpentibus, applanato-patelliformibus, tenuiter marginatis, 0,1-0,3 mm. lat.; ascis 30 36 × 10-12; sporidiis polystichis, elongatis, rectis v. raro incurvis, 1- dein 3-septatis, brunneolis, 6-10 × 3-4; paraphysibus supra 6 μ. cr. et brunneis; epithecio crasso. 4706

Hab. in thallo Lecideæ, Algäu Germaniæ.

11. **Leciographa Rhyparizæ** (Arnold) Rehm Disc. pag. 378, *Dactylospora* Arn. Flora 1874, p. 108, t. II, f. 3. — Ascomatibus applanato-patelliformibus, margine elevato cinctis, minutis; ascis clavatis; sporidiis distichis, elongato-ovoideis, obtusis, 1- dein 3-septatis, 4-guttulatis, medio subconstrictis, dein brunneis, 12-14 × 6-8; paraphysibus epithecium brunneum efformantibus. 4707

Hab. in disco Lecanoræ, Brenner Tiroliæ.

12. **Leciographa parasitaster** (Nyl.) Arn. Bot.-Zool. Verh. 1875, p. 480, Rehm Disc. p. 378, *Lecidea* Nyl. Flora 1875, p. 105. — Ascomatibus sparsis, vix erumpentibus, applanatis, nec cyathiformibus, nigrescentibus, circ. 0,3 mm. lat.; ascis clavatis, paraphysatis; sporidiis elongatis, utrinque obtusis, raro subacuminatis, 3- raro 5-7-septatis, sæpe guttatis, ad septa non constrictis, brunneis, 15-18 × 5-6; epithecio rubro-brunneolo. 4708

Hab. in thallo Bilimbiæ in Tirolia (Arnold).

13. **Leciographa Muscigenæ** (Anzi) Rehm Disc. pag. 379, *Celidium* Anzi Symb. lich. p. 27. — Ascomatibus gregariis, erumpentibus, applanato-patelliformibus, tenuissime marginatis, disco subinde albido-pulvereo, subnitentibus, nigris; ascis 55-65 × 15-20; sporidiis distichis, elongato-ellipsoideis, obutsis, 1- dein 3-septatis, sæpe 4709

4-guttulatis, ad septa non constrictis, brunneis, 18-23 ≃ 7-9; paraphysibus supra 6 μ. lat. et brunneis.

Hab. in parte superiore thalli Parmeliæ in Germania et Tirolia.

14. **Leciographa dubia** Rehm Disc. p. 379. — Ascomatibus minutis, patelliformibus, marginatis; ascis 8-sporis; sporidiis rectis v. rarius leniter curvulis, obtusis, 1-raro 2-3-septatis, medio lenissime constrictis, brunneis, 12-14 ≃ 5; paraphysibus brunneis; epithecio brunneolo. 4710

Hab. in thallo Lecanoræ in Tirolia (Arnold).

15. **Leciographa Nephromatis** Stein Zool.-bot. Verh. 1870, p. 480, Rehm Disc. pag. 380. — Ascomatibus erumpentibus, subsessilibus, minutissimis; disco primitus rotundo, dein lyriformi; ascis clavatis; sporidiis ellipsoideis, 3-septatis, dilute brunneolis, 16-17 ≃ 4,8-5; epithecio nigro-brunneo. 4711

Hab. in thallo Nephromatis in montibus Carpathicis.

16. **Leciographa monspeliensis** (Nyl.) Müll. Flora 1872, p. 502, Rehm Disc. p. 380. — Ascomatibus solitariis v. 2-3-gregariis, erumpentibus, elongato-ellipsoideis, raro rotundis, dein stellatim v. furcatim ramosis, subconvexis, subnitentibus, 0,5-1 mm. long., 0,2-0,5 mm. lat.; disco applanato, crasse marginato; ascis 45-60 ≃ 15-18, paraphysatis; sporidiis distichis, elongato-ovoideis, raro ellipsoideis, obtusis, rectis, 3-septatis, ad septa subinde subconstrictis, brunneis, 15-20 ≃ 7-9; epithecio brunneo-flavo. 4712

Hab. in crusta Aspiciliæ in Tirolia.

17. **Leciographa Arnoldi** Rehm Disc. p. 382. — Ascomatibus lecideinis, minutissimis, nigris, applanatis; sporidiis elongatis, obtusiusculis, 3-septatis, sæpe 4-guttulatis, brunneis, 18-22 ≃ 5-6; epithecio brunneo. 4713

Hab. in Barbula pr. Eichstädt in Bavaria Germaniæ.

18. **Leciographa centrifuga** (Mass.) Rehm Disc. p. 381, *Opegrapha* Mass. Misc. p. 18. — Ascomatibus areis griseis v. cyaneo-griseis, pruinosis insertis, aggregatis, orbicularibus vel oblongo-ellipticis, subinde furcato-triangulis, atro-nitidis, 0,2-0,5 mm. long., 0,2 mm. lat.; ascis clavatis 60-65 ≃ 17, octosporis; sporidiis 2-3-stichis oblongo-ovatis, 3-septatis, 15-16 ≃ 5-6, demum brunneis; paraphysibus septatis, ramosis, supra olivaceo-brunneis. 4714

Hab. in thallo Verrucariæ, Aspiciliæ, Callopismatis in Italia, Helvetia, Germania.

PSEUDOTRYBLIDIUM Rehm Disc. pug. 370 (Etym. *pseudes* falsus et *Tryblidium*). — Ascomata erumpenti-superficialia, initio globoso-clausa, dein crasse breve stipitata, applanato-convexula, vix marginata, sordide nigra, sicca rugulosa, firme ceracea. Asci elliptico-clavati, 4-8-spori, ramoso-paraphysati. Sporidia ovato-fusoidea, 2-4-locularia, ex hyalino brunnea.

1. **Pseudotryblidium Neesii** (Flot.) Rehm l. c. *Peziza* Flot. in Kl. H. M. n. 1419. — Ascomatibus sparsis v. gregariis, 0,5-1 mm. lat., atro-brunneis; ascis 75-80 ≃ 15-18, 4-8-sporis; sporidiis distichis continuis dein 1-3-septatis, ovato-fusoideis, brunneis, 15-18 ≃ 6-8. 4715

Hab. in cortice levigato Abietis pectinatæ in Alpibus Germaniæ, Italiæ, Helvetiæ.

RHYTIDOPEZIZA Speg. F. Guar. I, p. 138 (Etym. *rhytis* plica et *Peziza*). — Ascomata erumpenti-superficialia, sessilia, cupulata, cornea v. subcarbonacea, atra, margine integro involuto, minute ac dense costato-rugoso. Asci cylindracei, 8-spori, dense paraphysati. Sporidia 3-septata, opace fuliginea. — Genus cum *Tryblidiella* comparandum.

1. **Rhytidopeziza nigro-cinnabarina** (Schw.) Sacc. *Patellaria* Schw. Syn. Amer. bor. n. 1950, Sacc. F. Abyss. n. 29, f. 10, *Blitrydium* Sacc. Syll. VIII, pag. 805, 4716

Hab. præter loca indicata, ad ramulos putres in Abyssinia pr. Ghinda (Penzig). — Sporidia 3-septato-constrictula, fuliginea, 18-20 ≃ 6, initio 4-guttata (numquam muriformia, uti describit cl. Minks). — ***Rhyt. Balansæ** Speg. l. c.: paullo major; ascomatibus 1,5-2 mm. diam.; ascis 160-180 ≃ 16; sporidiis 25-30 ≃ 8. Ad ramos in silvis subvirgineis Guarapi Brasiliæ (Balansa).

Sect. 5. Scolecosporæ.

LAHMIA Körb. Par. p. 281, Rehm Disc. p. 341 (Etym. a cl. lichenologo Lahm e Münster). — Ascomata superficialia e globoso mox turbinata, brevissime stipitata, atra, duriuscula. Asci clavati octospori, paraphysati. Sporidia acicularia v. filiformia, parallele stipata, hyalina.

1. **Lahmia Kunzei** (Flot.) Körb. Par. p. 282, Rehm Disc. p. 341. *Calicium* Flot. — Ascomatibus sparsis, initio globosis, clausis dein turbinatis, tenui-marginatis, brunneolis, 0,1-0,4 mm. lat., extus 4717

atris; ascis clavatis supra rotundatis, tenui-stipitatis, 100-150 ≈ 15-18, octosporis; sporidiis polystichis, cylindraceo-verruciformibus, 3-5-septatis, hyalinis, 30-45 ≈ 4-5; paraphysibus ramosis, supra brunneolis.

Hab. in cortice Populi albæ et tremulæ, raro Salicum, Robiniæ, Quercus, in Germania.

2. **Lahmia Piceæ** Anzi Lich. Lang. n. 457, Rehm Disc. pag. 343. — 4718
Ascomatibus gregariis, globulosis dein discoideis, crasse stipitatis, demum turbinatis tenui-marginatis, atro-brunneis 0,3-0,8 mm. lat.; ascis clavatis, tenui-stipitatis, 110-130 ≈ 15-17, octosporis; sporidiis parallele stipatis, aciculari-fusoideis, 7-septatis, hyalinis, 40-45 ≈ 3-5; paraphysibus tenuibus, septatis, furcatis, supra brunneis concretis.

Hab. in cortice Abietis pr. Bormio Ital. bor.

3. **Lahmia Fuistingii** Körb. Par. p. 464, Rehm Disc. p. 343. — Asco- 4719
matibus gregariis, sessilibus, dein turbinatis, 150-500 μ. lat. et alt., nigris; disco appanato v. subconvexo; ascis supra obtuse acuminatis, 90-100 ≈ 15-17, paraphysatis; sporidiis parallele dispositis, acicularibous, rectis acutiusculis, 7-15-septatis, 20-70 ≈ 2-2,5.

Hab. in thallo Sphyridii byssoidis et S. placophylli etc. Westfalen et Silesia.

MYCOBACIDIA Rehm Pilzfl. Disc. p. 337 (Etym. quasi *Bacidia* fungina). — Ascomata parasitica, sparsa vel gregaria, sessilia, pallida, rarius nigra, crustula discolori sæpe inserta, firmo-ceracea, disco primitus cyathi- v. patelliformi, marginato, dein convexo et immarginato. Asci clavati, supra rotundati, 8-spori, paraphysati. Sporidia circa asci axim disposita, acicularia v. filiformia, transverse multiseptata, hyalina.

1. **Mycobacidia herbarum** (Hepp) Rehm loc. cit. — Ascomatibus su- 4720
biculo indeterminato, levi, coriaceo, griseo insidentibus, usque ad 1 mm. lat., firmo-ceraceis; disco patelliformi, nitenti-castaneo, dein opace rubro-brunneo, tandem nigro-brunneo; ascis 55-60 ≈ 10-12; sporidiis subspiraliter dispositis, filiformibus, plus minus undulatis, uno apice valde acutatis, transverse distincte 7-15-septatis, 40-60 ≈ 1,5-3; paraphysibus supra furcatis et incrassatis.

Hab. ad muscos, gramineas et Juniperi ramulos in Franconia.

2. **Mycobacidia flavo-virescens** (Dicks) Rehm Disc. p. 338. — Asco- 4721
matibus subiculo crustaceo gregatim insidentibus, nigris, nudis,

0,3-0,7 mm. lat., firmo-ceraceis, disco cyathi- dein patelliformi; ascis anguste clavatis, stipitatis, 4-8 sporis, 75-90 ≈ 12-14; sporidiis parallele dispositis, acicularibus, utrinque acuminatis, 5-15-septatis, 30-90 ≈ 3; paraphysibus 1,5 μ. cr. supra ramosis et viriduli-brunneolis.

Hab. ad Sphyridium byssoides in tota fere Europa.

BACTROSPORA Mass. Ric. p. 133, Rehm Disc. pag. 344 (Etym. *bactron* baculus et *spora*). — Ascomata crustula pallida inserta, sessilia, initio globosa clausa demum scutellata, marginata demum immarginata. Asci cylindracei, ramoso-paraphysati, octospori. Sporidia bacillaria pluriseptata, parallele stipata, ex hyalino flavida, subinde demum in articulos secedentia.

1. **Bactrospora dryina** (Ach.) Mass. l. c., Rehm l. c. — Ascomatibus 4722
gregariis atro-purpureis, dein nigris 0,2-1,2 mm. lat.; ascis tereti-clavatis, apice rotundatis, 120-130 ≈ 10-15; sporidiis bacillaribus 11-septatis, subhyalinis, 60-80 ≈ 2-2,5; paraphysibus repetito-ramosis, 2 μ. cr., septatis.

Hab. in cortice Quercuum in Germania, Italia.

Fam. 9. **Gymnoascaceæ** Bar.

Subf. Exoascæ Sad.

TAPHRINA Fr. — Syll. VIII. p. 812 *).

1. **Taphrina lethifera** (Peck.) Sacc. *Ascomyces* Peck 40 Rep. p. 66. 4723
— Indefinita, hypophylla, sæpe paginam superiorem totam occupans et glauco-pruinosam reddens; ascis cylindraceis obtusis v. subtruncatis, 40-50 ≈ 15-20; sporidiis minutis ex ellipsoideo subglobosis, 4-5 ≈ 2-3.

Hab. in foliis vivis Aceris spicati, Elizabethtown Amer. bor.

2. **Taphrina rubro-brunnea** (Peck) Sacc. *Ascomyces* Peck 40 Rep. 4724
p. 67. — Maculis definitis, variis, minutis et suborbicularibus vel latis et irregularibus, subinde confluentibus, sæpius supra concavis, infra convexis, sordide rubro-brunneis, infra pallidioribus; ascis oblongis, apice truncatis, 50-75 ≈ 15-22; sporidiis minutis, subellipticis, 3-4 ≈ 1,5-2.

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*) Cfr. R. Sadebeck Krit. Untersuch. Taphr. Hamb. 1890 cum tab., ubi et species quædam reformantur et novæ fuse describuntur. Hic earum notas essentiales tantum retuli.

Hab. in foliis Quercus rubræ, Sandlake Amer. bor. — *Taphrinæ alutaceæ* affinis sed color alius, asci crassiores etc.

3. **Taphrina Johansonii** Sadeb. Krit. Unters. Taphr. p. 9, *T. rhizophora* Johans. (p. p. in carpellis *P. tremulæ*). Est maxima *Taphrinæ* species. 4725

Hab. in fructibus Populi tremulæ in Suecia et Germania.

4. **Taphrina epiphylla** (Sad.) Sacc. Syll. VIII, p. 816. — Var. **maculans** Sadeb. Krit. Unters. Taphr. pag. 10, t. IV, f. 2. — Maculis 0,5–1 cm. lat.; ascorum cellula basilari deorsum acutiori et sæpius minori, cetera eadem. 4726

Hab. in foliis Alni glutinosæ et A. incano-glutinosæ in Germania.

5. **Taphrina Kruchii** (Vuill.) Sacc. *Exoascus Kruchii* P. Vuill. Rev. Myc. 1891, p. 141. — Hypophylla, totam fere paginam occupans; ascis infra planis, subcuticularibus, cellula basilari carentibus, supra subclavatis, 72-80 ≃ 21-23, initio octosporis; sporidiis sphæricis octonis 4 μ. diam., demum numerosissimis ellipsoideis 2,5 ≃ 2. 4727

Hab. in foliis vivis Quercus Ilicis in Italia et Gallia. — Ramuli fungillo correpti deformantur (*Scopazzi*), de quo cfr. cl. Kruch Malpigh. 1891, p. 424. — A *Taphr. cœrulescente*, præter colorem, differt ascis majoribus etc.

6. **Taphrina Githaginis** Rostr. Medd. Nat. Foren. Kjobenhavn 1890, p. 257. — Hyphis intercellularibus, totam matricem occupantibus; ascis subepidermicis, ellipsoideis, flavescentibus, 48-58 ≃ 30-45, cellula basilari nulla; sporidiis globosis; conidiis numerosissimis oblongis, 4-6 ≃ 2-3. 4728

Hab. in foliis caulibusque vivis Agrostemmatis Githaginis in Dania.

7. **Taphrina lutescens** Rostr. Medd. Nat. Foren. Kjobenhavn 1890, p. 257. — Maculis intense flavis in frondibus vivis non bullatis; hyphis intercellularibus; ascis gracilibus, 60–70 ≃ 8-9, cellula basilari nulla; conidiis numerosis e prolificatione sporidiorum ortis, exiguis, 3-4 ≃ 0,5-1. 4729

Hab. in frondibus Polystichi Thelypteridis in Dania.

8. **Taphrina Cissi** Zoll. in Flora 1847, p. 300. — Maculis purpurascentibus, rotundatis, villoso-sericeis, 2–4 mm. diam., vix 0,5 mm. cr.; floccis (ascis?) clavatis, articulatis, granulosis, purpurascentibus; granulis (sporidiis?) depresso-sphæricis, cruciatim notatis, aliis minoribus intermixtis. 4730

Hob. in foliis Cissorum variorum ad pedem M. Salak Javæ.

EXOASCUS Fuck. — Syll. VIII, p. 816.

1. **Exoascus Celtidis** (Sadeb.) Sacc. *Taphrina* Sadeb. Krit. Unters. 4731
p. 20, t. V (1890). — Maculis irregularibus, brunneis, amphigenis, vix inflatis 0,5-1 cm. lat.; ascis cylindraceis, obtusis, octosporis, 25-28 × 8-10; cellula basilari epidermidem non intrante, valde lata, 8-10 μ. alta, 25-30 μ. lata; sporidiis globosis 1-guttulatis, 3-3,5 μ. diam.

Hab. in foliis Celtidis australis, cui valde noxius, prope Lugano. — *Exoasco Ulmi* subaffinis.

2. **Exoascus Æmiliæ** Passer. F. N. IV. n. 35 (Jun. 1890). — Maculis 4732
subdiscoideis variis, primo albido-griseis, dein exaridis, fuscis, tandem circumscissis elabentibus; ascis in macula plana hypophyllis, sparsis vel subgregariis, tubulosis vel basim versus plus minus angustatis, utrinque rotundatis, cellula basilari non visa, 12-15 × 6-7,5; sporidiis octonis, globosis, distichis v. conglobatis, hyalinis, 2,5-3 μ. diam.

Hab. in foliis Celtidis australis, Vigheffio prope Parma Ital. bor. — «Etsi cellulæ basilares non visæ, species verisimillime eadem ac præcedens».

3. **Exoascus Alni-incanæ** Kühn in litt. (ut var.), *Taphrina Alni-* 4733
incanæ (Kühn) Sadeb. Krit. Unters. p. 17, t. IV, f. 1 *a*, et 1 *b*, *Exoascus alnitorquus* Auct. (p. p. in amentis), *Taphr. amentorum* Sadeb. in Centralb. 1888, p. 349. — Ascis cellula basilari carentibus, 40-45 × 10, tereti-clavatis, 8-sporis; sporidiis subdistichis, globosis, 5 μ. cr.

Hab. in amentis femineis Alni incanæ in Germania etc. — Plerumque colorem atro-rubrum amentis affert. — Asci nunc epidermidi profunde immersi, nunc leviter. *Ascomyces endogenus* Fisch Bot. Zeit. 1885, p. 33, t. I, verisimiliter est eadem species, præterviso mycelio.

4. **Exoascus Cerasi** Fuck. Symb. p. 252 (ut var.) *Exoascus* et *Ta-* 4734
phrina deformans Auct. (pr. p. in Ceraso), *Taphrina Cerasi* (Fuck.) Sadeb. Krit. Unters. Taphr. pag. 26, t. IV, f. 8. — Ascis angustis 35-50 × 5-7, octosporis; cellula basilari 10-16 × 5; sporidiis 3-5 μ. diam.

Hab. in foliis Pruni Cerasi et P. avium, frequens. — *E. deformans* (Berk.) Tul. typicus viget in *Amygdalo Persica* et præbet ascos crassiores, 35-40 × 9-10, cellulas basilares 6-8 μ. lat. et alt.

5. **Exoascus Cratægi** (Sadeb.) Sacc. *Taphrina* Sadeb. Krit. Unters. 4735
Taphr. p. 21, t. IV, f. 5, *Exoascus bullatus* Sadeb. et Auct. p. p. — Ascis cylindraceis utrinque truncatis, 25-35 ≃ 8, cellula basilari 6–8 μ. diam. suffultis, 8–sporis; sporidiis globosis 4,5 μ. diam.

Hab. in foliis rarius et in floribus Cratægi Oxyacanthæ in Germania alibique. Folia correpta rubescunt, corrugantur et torquentur. Asci inter cellulas epidermidis haud penetrant.

6. **Exoascus minor** (Sadeb.) Sacc. *Taphrina* Sad. Krit. Unters. Taphr. 4736
p. 24, t. IV, f. 6. — Ramulos et gemmas vexans et deformans foliorumque pag. inferiorem ex toto vel partem occupans, sæpius rubro-tingens et pruina albida conspergens, demum contorquens; ascis tereti-clavatis 30-35 ≃ 6-8, cellula basilari 8–10 μ. diam. suffultis, octosporis; sporidiis globoso-ellipsoideis, 6-7 ≃ 5.

Hab. in foliis vivis Pruni Chamæcerasi pr. Hamburg Germaniæ et forte alibi. — Mycelium tantum subcuticulare.

7. **Exoascus Farlowii** (Sad.) Sacc. *Taphrina* Sad. Krit. Unters. Taphr. 4737
p. 30, t. IV, f. 3. — Ascis inter se remotiusculis, tereti-clavatis, apice rotundatis, 20-30 ≃ 8–9, cellula basilari cylindracea, longiuscula, 15-25 ≃ 8-9, in matricem non penetrante.

Hab. in fructibus immaturis, qui hyperhophice deformantur, Pruni serotinæ, Cambridge Mass. Amer. bor. (Farlow). — Affinis *Exoasco Pruni*, sed vere distinctus.

Subfam. 2. Gymnoasceæ Bar.

ENDOMYCES v. Tiegh. — Syll. VIII, p. 820.

1. **Endomyces Scytonematum** Zukal in Flora 1891, p. 106, t. III, 4738
f. 34, *Ephebella Hegetschweileri* Itzigs. — Mycelio hyalino, septato, 0,8-1 μ. cr., partibus fertilibus, 2 μ. cr., ad septa inflatis; ascis piriformibus, stipitatis, 8-sporis, 25-26 ≃ 17-18; sporidiis conglobatis, coffeiformibus, h. e. uno latere planis, continuis, hyalinis, levibus, 8 ≃ 6.

Hab. in Scytonemate alato pr. Neuhaus in Stiria. — Glomeruli ascorum sistunt in Scytonematibus tumores subglobosos peculiares (*Algen-gallen*).

2. **Endomyces Magnusii** Ludw. in Bericht. Deutsch. Bot. Gesellsch. 4739
1886, p. XVII et Bref. Unters. IX, p 124, t. I, f. 1-18. — Mycelii hyphis filiformibus longis, ubique ramosis, septatis, hyalinis; ascis in ramulis acrogenis copiosis, ovato-ellipsoideis, 40–45 ≃ 25, tetrasporis; sporidiis ellipsoideis, parce sed conspicue verruculosis, hyalinis 12-15 ≃ 8–10.

Hab. in lympha spumosa fluente (*Schleimfluss*) Quercus pr. Greiz in Germania. — Mensuram asci et sporidiorum ex iconibus Brefeldii sumpsi.

GYMNOASCUS Bar. — Syll. VIII, p. 823.

1. **Gymnoascus Zuffianus** Morini in Mem. R. Acc. Bol. IV, tomo X, p. 137 cum iconibus. — Ascomatibus globulosis, luteo-pallidis, circiter 330-500 μ. diam., numerosis setulis hyphoidis emergentibus, acuminatis et rigidulis conspersis; hyphis ascogenis exilissimis, septatis, incoloribus, ramulis ultimis in ascos globulosos 15-18 μ. diam. abeuntibus; sporidiis octonis, conglobatis, hyalinis, sphæroidalibus, 4-6 μ. diam. 4740

Hab. in Ozonio (O. stuposo Pers.?) insidens prope Sassari ins. Sardiniæ.

2. **Gymnoascus Eidami** Cocc. Svil. tre picc. fung. pag. 8, t. II. — Ascomatibus exiguis, cinereo-flavidulis, 0,3-0,4 mm. diam., subcircularibus, extus breve setulosis; hyphis ascophoris cylindricis, ramosis, continuis, hyalinis; ascis in ramulis acrogenis, globosis, octosporis, 12-14 μ. diam.; sporidiis conglobatis, sphæricis, hyalinis, 3-5 μ. diam. 4741

Hab. in foliis putridis stercoratis in agro Bononiensi. — «Excipulum v. perithecium (uti auctor vocat) adest minute parenchymaticum; an ergo potius *Cephalothecæ* species?».

ASCOCORTICIUM Bref. Unters. Myk. IX, p. 145 (Etym. quasi *Corticium* ascigerum). — Ascomata effusa, indeterminata, plana, membranacea, ex ascis fere omnino composita. Asci verticaliter stipati, clavato-oblongi, subsessiles, 8-spori, aparaphysati, ex hyphis mycelii horizontaliter effusis, continuis, filiformibus oriundi. Sporidia ellipsoidea, continua hyalina.

1. **Ascocorticium albidum** Bref. loc. cit. t. I, f. 37-30. — Flocculosum, griseo-album vel rubescens, 1-5 cm. long., 1-3 cm. lat.; ascis clavato-oblongis, 18-24 × 7-8; sporidiis subdistichis, ellipsoideis, 4-5 × 2, hyalinis. 4742

Hab. in cortice relaxato Pinuum prope Münster Germaniæ (v. Tavel).

ASCOIDEA Bref. Untersuch. Myk. IX, p. 94 (Etym. *ascos* et *eidos* species). — Ascomata indeterminate effusa, nuda, colorata, carnosula. Asci tereti-clavati, pluri-tunicati, apice dehiscentes, in my-

celii densi hyphis septatis acrogeni, myriospori. Sporidia minuta globulosa, basi plano-truncata, hyalina. Adsunt simul hyphæ conidicæ conidia subspicata ovato-oblonga.

1. **Ascoïdea rubescens** Bref. loc. cit. t. III, *B*, f. 1-31. — Initio levis, rubra, albido tincta, demum obscurior submuriculata, 3 cm. et ultra lata. 12 mm. cr.; ascis generis; sporidiis 5 μ. diam. 4743

Hab. in trunco dejecto Fagi in silvis prope Wolbeck Germaniæ. — Quoad speciei evolutionem cfr. Bref. loc. cit.

Fam. 10. **Caliciaceæ** Fr.

Sect. 1. Phæosporæ.

HYPSOTHECA Ell. et Ev. — Syll. VIII, p. 834.

1. **Hypsotheca ephemera** (Swackh) Sacc., *Coniocybe Beckhausii* Körb. Par. p. 301, *Caliciopsis ephemera* (Zwackh) Rehm Disc. p. 388, *Calicium* Zwackh. Huc ducenda fere absque dubio, teste Rehm loc. cit., *Hyps. subcorticalis* (C. et E.) Ell. et Ev., Syll. VIII, p. 834. Sporidia etiam in exempl. amer. 5 μ. diam.

CALICIOPSIS Peck. — Syll. VIII, p. 833.

1. **Caliciopsis stenocyboides** (Nyl.) Rehm Disc. p. 389. Huc est ducenda, teste Rehm loc. cit., *Caliciopsis pinea* Peck — Syll. VIII, pag. 833.

Sect. 2. Didymosporæ.

CALICIUM Pers. — Syll. VIII, p. 834.

1. **Calicium fallax** Auersw. Hedw. 1858, p. 14, Rehm Disc. p. 412. — Ascomatibus capitulatis, stipite crassiusculo, elongato, e basi latiore plerumque aciculari-attenuato, non raro furcato suffultis, brunneis, brunneo-pulvereis; disco cyathiformi; sporidiis elongato-fusoideis, indistincte 1-septatis, brunneolis, 7-9 ≃ 3-3,5. 4744

Hab. in thallo pulvereo-crustaceo, albido, sociâ *Biatorâ luci-dâ*, Tharandt in Saxonia. — Secundum Sydow Flecht. Deutschl. p. 251, sporidia usque ad 16 ≃ 7.

2. **Calicium atomarium** Fr. Vet. Ak. Handl. 1817. p. 227, Rehm Disc. p. 402. — Ascomatibus sparsis, sessilibus, dein hemisphæricis, demum brevissime turbinatis, nigris, subinde leniter viridulo-tinctis, 4745

0,1-0,3 mm. lat., 0,1-0,25 mm. alt., corneis; disco sæpius valde convexo; ascis cylindraceis, 8-sporis, 45-50 ≃ 5; sporidiis monostichis, elongato-ellipsoideis v. fusoideis, obtusis, rectis, 1-septatis, rarissime medio constrictis, primo hyalinis, dein brunneis, 6-9 ≃ 2,5-3; paraphysibus filiformibus, 1 μ. lat., hyalinis.

Hab. in cortice vetusto Quercus et Pini in Germania.

3. **Calicium hospitans** Th. Fr. Bot. Not. 1865, pag. 40, Rehm Disc. 4746
p. 401. — Ascomatibus gregariis, rarius sparsis, lenticularibus v. hemisphæricis, basi in stipitem pallidiorem angustatis, 0,2-0,3 mm. lat., ceraceo-firmis, disco convexis, immarginatis; ascis cylindraceis, supra rotundatis, 8-sporis, 45-50 ≃ 4-5; sporidiis monostichis, obtuse ellipsoideis, continuis, demum raro 1-septatis et medio subconstrictis, brunneis, 6-9 ≃ 3; paraphysibus filiformibus, 2-2,5 μ. lat., supra subramosis, dilute flavidis.

Hab. in thallo Lecanoræ ad ramos putridos Quercus, ad ramos siccos, vetustos Pini et truncos Aceris in Germania et Austria. — *C. paroico* affine.

4. **Calicium parietinum** Ach. Vet. Ak. Handl. 1816, p. 260, t. 8, Rehm 4747
Disc. p. 405. — A *C. pusillo*, cui conjunctum in Syll. VIII, p. 835, differt præcipue stipite usque 2 mm. long.; sporidiis plerumque continuis, 5-8 ≃ 3.

Hab. in corticibus et lignis præcipue Quercus, Pini in Germania, Helvetia, Italia, Suecia etc. — «Potius *Embolus*».

5. **Calicium præcedens** Nyl. Flora 1867, Rehm Disc. p. 405. — Asco- 4748
matibus gregariis, primo subcylindricis, dein turbinato-lenticularibus, 0,1-0,2 mm. lat., stipite tenuissimo, circ. 0,2 mm. præditis, nigris, corneis; disco rotundo, convexo, tenuiter marginato; ascis cylindraceis, 8-sporis, 75-90 ≃ 6-7; sporidiis monostichis, elongatis, raro ellipsoideis, continuis, rectis, brunneolis, 9-14 ≃ 4-5; paraphysibus filiformibus, 2 μ. lat.

Hab. in ramis siccis Alni viridis in Tirolia et Württenberg Germaniæ. — *C. parietino* affinis. «Potius *Embolus*».

6. **Calicium tremulicolum** (Norrl.) Rehm Disc. pag. 405, *Stenocybe* 4749
Norrl. Cfr. Flora 1883, p. 531. — Ascomatibus sparsis, hemisphæricis, disco convexis, breviter tenuiterque stipitatis, circ. 0,3 mm. alt., supra 0,2 mm. lat., nitenti-nigris; ascis cylindraceis, apice rotundatis, 8-sporis, 90-95 ≃ 5-6; sporidiis 1-stichis, rectis, tenuiter 1- raro 3-septatis, ad septa non constrictis, involucro mucilaginoso, tenui cinctis, griseo-brunneolis, 15-17 ≃ 4-4,5; paraphysibus filiformibus, 1 μ. lat.

Hab. in cortice levi, vetusto Coryli in Württemberg Germaniæ, rarissime. « Potius *Stenocybe* »,

7. **Calicium disseminatum** (Ach.) Fr. Lich. eur, p. 397, Rehm Disc. 4750
p. 403. — Ascomatibus gregariis, dein breviter turbinatis, sessilibus, nigris, vix cœruleo- v. viridulo-tinctis, usque ad 0,3 mm. alt., 0,1-0,25 mm. lat., corneis; disco rotundo, demum convexo; ascis cylindraceis, 8-sporis, circ. 50 = 5; sporidiis monostichis, elongatis, obtusis, rectis v. subincurvis, 1- demum 3-septatis, hyalinis, dein atro-brunneis, 10-12 = 3,5-4; paraphysibus filiformibus, 1 μ. lat., hyalinis.

Hab. in cortice fisso Quercus, Betulæ et Abietis pectinatæ in Germania et Helvetia. — An potius *Stenocybe?*

Fam. 11. **Arthoniaceæ** Rehm Disc. p. 414.

Ascomata innata dein erumpentia, excipulo nullo manifesto cincta, convexo-applanata, ambitu rotunda v. varie efformata.

Genera hujus familiæ hucusque inter Lichenes enumerabantur, sed gonidia nulla, hinc a cl. Rehm ad Discomycetes recte translata. Opus eximium (*Deutsch. Discom.*) hujus auctoris est necessario conferendum; hic tantum, notitiæ causa, synopsin generum et specierum ex eodem opere excerpsi.

Clavis analytica Generum.

A. Parasiticæ in Lichenibus.

Phacopsis. Ascomata subrotunda. Sporidia continua, hyalina.

Conida. Ascomata subrotunda. Sporidia 1- raro 2-septata, hyalina vel flavidula.

Celidium. Ascomata subrotunda. Sporidia 3-septata, hyalina v. demum brunnea.

B. Corticicolæ.

Lecideopsis. Ascomata rotunda vel inæqualiter maculiformia. Sporidia 1-septata, hyalina.

Arthonia. Ascomata e rotundo angulosa vel ramulosa. Sporidia 3-5-septata, hyalina v. flavidula.

Arthothelium. Ascomata inæqualiter sinuoso-maculiformia. Sporidia pluri-septato-muriformia, hyalina v. brunnea.

PHACOPSIS Tul. Ann. Sc. nat. III, t. XVII, pag. 124, Rehm Disc. p. 419 (Etym. *phace* lenticula et *opsis* facies).

1. **Phacopsis vulpina** Tul. l. c., Rehm l. c. — Ascomatibus nigris, sub- 4751

inde viridiflavo-pruinosis, 0,2-0,5 mm. diam.; ascis 45-50 ≃ 18-30, octosporis; sporidiis ellipsoideo-oblongis, 13-16 ≃ 4-6.

Hab. in thallo Everniæ in Germania, Tirolia, Helvetia.

CONIDA Mass. Symm. Lich. p. 75, Rehm Disc. p. 420 (Etym. *conis, conidos* lens seu ovum pediculorum).

1. **Conida clemens** (Tul.) Mass. Misc. Lich. pag. 16, *Phacopsis* Tul. Ann. Sc. nat. 1852, pag. 124. — Ascomatibus nigris, 0,2-1 mm. diam.; ascis 36-40 ≃ 15-17, octosporis; sporidiis clavato-oblongis, 10-15 ≃ 3-5, hyalinis, constricto 1-septatis; hypothecio dilute flavo-brunneo. 4752

   Hab. in epitheciis Lichenum plurimorum in Germania, Italia, Gallia, Suecia, Helvetia.

2. **Conida lecanorina** (Almq.) Rehm Disc. p. 422, *Arthonia* Almq. Mon. Arth. p. 54. — Ascomatibus nigris, 0,2-0,4 mm. lat.; ascis 36-40 ≃ 15-17, octosporis; sporidiis pyreniformibus, constricto-1-septatis, hyalinis, 9-10 ≃ 4,5-5; hypothecio saturate flavo-brunneo. 4753

   Hab. in apotheciis Lecanoræ in Germania.

3. **Conida punctella** (Nyl.) Arn. Jura, Fl. p. 46, Rehm Disc. p. 423, *Arthonia* Nyl. — Ascomatibus nigris, punctiformibus; ascis 42 ≃ 18, octosporis; sporidiis ovato-clavatis, 15 ≃ 6, 1-septatis, ex hyalino brunneolis; hypothecio achroo. 4754

   Hab. in thallo Diplotommatis epipolii in Franconia sup. (Arnold).

4. **Conida destruens** Rehm Disc. p. 423. — Ascomatibus nigris, 0,2-0,3 mm. lat.; ascis 36-40 ≃ 10-12, quadri-octosporis; sporidiis clavulatis, 9-15 ≃ 3-5, 1- raro 2-septatis ex hyalino brunneolis; hypothecio brunneo. 4755

   Hab. in thallo, rarius apotheciis Parmeliæ et Physciæ in Germania.

5. **Conida Pelveti** (Hepp.) Arn. Flora 1874, pag. 105, Rehm Disc. p. 424, *Celidium* Hepp. — Ascomatibus nigris, 0,3-1,5 mm. lat.; ascis 35-45 ≃ 15-20, quadri-octosporis; sporidiis oblongo-clavatis, constrictulo-1-septatis, 10-13 ≃ 3, hyalinis; hypothecio brunneolo. 4756

   Hab. in thallo Solorinæ, Algau Bavariæ,

6. **Conida nephromiaria** (Nyl.) Arnold. Flora 1874, p. 105, Rehm Disc. p. 425, *Celidium* Karst., Syll. VIII, p. 743. — Var. **stereocaulina** Ohlert in Rehm loc. cit. — Ascomatibus nigris, 0,15-0,18 mm. lat.; ascis 18-20 ≃ 6-8; sporidiis obovato-clavulatis, 10-15 ≃ 3-5, hyalinis. 4757

Hab. in thallo Stereocauli et Parmeliæ in Germania.

CELIDIUM (Tul.) Körb. Syst. lich. p. 210, Rehm Disc. p. 425. Syll. VIII, p. 742. — Species Syllogi addendæ sequuntur.

1. **Celidium pulvinatum** Rehm Disc. p. 427. — Ascomatibus nigris, albido-pruinosis, 0,3–1,5 mm. lat.; ascis 60-70 × 18-21, octosporis; sporidiis ellipsoideo-oblongis, 3-septatis, 18–24 × 4-7, ex hyalino brunneis. 4758

   Hab. in thallo Endocarpi in Germania.

2. **Celidium lepidophilum** (Anzi) Rehm Disc. p. 427, *Abrothallus* Anzi Anal. p. 24. — Ascomatibus convexis, nigris, siccis viridulo-pruinosis, 0,1-0,2 mm. diam.; ascis 60 × 10-12, octosporis; sporidiis fusoideis, 1-3-septatis, 10-15 × 3-5, hyalinis. 4759

   Hab. in thalli squamis Cladoniæ, Val Furva Ital. bor.

3. **Celidium tabescens** Anzi Anal. lich. var. p. 25, Rehm Disc. p. 428. — Ascomatibus minutissimis, nigris v. nigro-purpureis; sporidiis navicularibus 1–2-septatis, quaternis vel senis; epithecio et hypothecio rubro-brunneo. 4760

   Hab. in thallo Imbricariæ saxatilis, Bormio Ital. bor. — Ad **Celidium varians** (Dav.) Arn., Syll. VIII, p. 742, var. **intextum** Almq., Rehm Disc. pag. 429 est ducenda *Metasphæria Lichenis-sordidi* (Mass.) Sacc. Syll. II, p. 184.

4. **Celidium Ericetorum** (Fl.) Rehm Disc. p. 431, *Nesolechia* Flot. — Ascomatibus opace nigris, 0,1-0,3 mm. diam.; ascis 60–65 × 9-10, octosporis; sporidiis elongatis, 3-septatis, hyalinis, 10-15 × 3. 4761

   Hab. in thallo Bæomycetis rosei et Sphyridii in Germania.

LECIDEOPSIS Almq. Mon. Arth. Scand. p. 46, Rehm Disc. pag, 432 (Etym. *Lecidea* et *opsis* facies).

1. **Lecideopsis Bueriana** (Lahm) Rehm Disc. pag. 432, *Coniangium* Lahm. — Ascomatibus nigris, rugulosis, 0,1–0,25 mm. diam.; ascis 36-40 × 12-15, 4-8-sporis; sporidiis ovato-oblongis, 1-septatis, ex hyalino brunneolis, 12–15 × 4–5. 4762

   Hab. in cortice Quercus in Germania.

2. **Lecideopsis galactites** (DC.) Rehm Disc. p. 433, *Verrucaria* DC. — Ascomatibus in areis argenteo-albis gregariis, nigris, 0,1–0,5 mm. lat.; ascis 30-40 × 15-18, octosporis; sporidiis ovato-oblongis, clavulatis, 1-septatis, hyalinis, 12-18 × 4-5. 4763

   Hab. in cortice levigato Populorum in tota fere Europa.

3. **Lecideopsis excipienda** (Nyl.) Rehm Disc. p. 434, *Arthonia* Nyl. 4764
— Ascomatibus in areis pallidis fusco-cinctis gregariis, nigris, 0,2–1,2 mm. lat., demum anguloso-stellatis; ascis 40–45 ≈ 21–25, 8-sporis; sporidiis oblongo-ovatis, 1-septatis, hyalinis, 14-19 ≈ 6–7.

Hab. in ramis corticatis Berberidis, Ligustri, in Germania, Helvetia etc.

4. **Lecideopsis cembrina** (Anzi) Rehm Disc. p. 434, *Arthonia* Anzi 4765
Manip. p. 126. — Ascomatibus in areis dealbatis gregariis, varie sinuoso-stellatis, nigris, 0,1–1 mm. long., 0,1–0,2 mm. lat.; ascis 40–45 ≈ 15–20, 6–8-sporis; sporidiis clavulatis, 1-septatis, hyalinis, 12–15 ≈ 4–5.

Hab. in cortice levigato Pini Cembræ in Germania et Italia.

ARTHONIA Ach. Lich. Univ. p. 25, Rehm Disc. p. 435 (Etym. ἀρδω nec ἀρθω (ut male legit Acharius) irrigo, conspergo, quasi thallus ascomatibus minutis conspersus; hinc «*Ardonia, Ardothelium, Ardoniaceæ*» rectius esset scribendum.

1. **Arthonia punctiformis** Ach., Rehm Disc. p. 435. — Ascomatibus 4766
in areis albidis gregariis stellatis vel versiformibus, nigris, 0,2–0,7 mm. lat.; ascis 36–40 ≈ 21–24, octosporis; sporidiis oblongo-ovatis, 3–5-septatis, flaveolis, 17–20 ≈ 4–6.

Hab. in cortice levigato Tiliæ, Fraxini, Ulmi, Celtidis, Fagi, Tremulæ, Pini, Castaneæ, Piri in tota Europa.

2. **Arthonia obscura** (Pers.) Leight. Graph. p. 56, Rehm Disc. p. 436. 4767
— Ascomatibus in areis brunneo-viridulis gregariis, varie angulosis, nigricantibus, 0,1–2,5 mm. lat.; ascis 40–45 ≈ 18–20, 6–8-sporis; sporidiis oblongis, 5-septatis, medio constrictis, ex hyalino flavidis.

Hab. ad basim truncorum juniorum Fagi, Coryli, Quercus, Alni in tota fere Europa.

3 **Arthonia dispersa** (Schrad.) Rehm Disc. p. 437, *Opegrapha* Schrad. 4768
— Ascomatibus in areis expallentibus gregariis, sublinearibus vel versiformibus ramulosisque, 0,1–0,2 mm. lat.; ascis 21–30 ≈ 15–20, octosporis; sporidiis cuneatis, 1–3-septatis, 10–12 ≈ 3–4, hyalinis.

Hab. in ramis truncisque junioribus Æsculi, Fraxini, Alni, Coryli, Pruni, Rhois, Sorbi, Rhamni, Quercus, Berberidis, Ribis, Liriodendri, Caraganæ, Pini, Rhododendri in tota fere Europa.

ARTHOTHELIUM Mass. Rich. Lich. p. 54, Rehm Disc. p. 438 (Etym. *ardo* conspergo et *thele* papilla).

1. **Arthothelium ruanideum** (Nyl.) Arn. Lich. n. 1078, Rehm Disc. p. 438, *Arthonia* Nyl. — Ascomatibus in areis griseo-brunneolis, gregariis confluendo rotundo-stellatis, 1 mm. lat., nigris; ascis 50-60 ≃ 2-5, octosporis; sporidiis oblongo-ellipticis, 7-septato-muriformibus, hyalinis, 15-18 ≃ 7-9. 4769

   Hab. in cortice juniore Alni, Fraxini, Coryli, Pini, Ilicis, in Germania, Helvetia.

2. **Arthothelium ruanum** (Mass.) Rehm Disc. p. 439, *Arthonia* Mass. Ric. p. 47. — Ascomatibus in areis pallidis acervulatis, ramoso-confluentibus, 0,1-0,2 mm. lat., nigris; acervulis 1-1,5 mm. lat.; ascis 36-40 ≃ 21-25, octosporis; sporidiis ellipsoideis, 5-7-septato-muriformibus, 15-18 ≃ 6-7, hyalinis dein brunneolis, medio constrictis. 4770

   Hab. in cortice Pinorum, Quercus, Fraxini, Carpini, Juglandis in Germania, Helvetia.

3. **Arthothelium subcembrinum** (Anzi) Rehm Disc. p. 439, *Arthonia* Anzi Symb. p. 22. — Ascomatibus sparsis, punctiformi-inæqualibus; ascis piriformibus, 6-8-sporis; sporidiis obovato-cuneatis, pluriseptato-muriformibus, 17-21 ≃ 8-10, hyalinis. 4771

   Hab. in cortice leviore Pini Cembræ in Val Furva Ital. bor. (Anzi).

4. **Arthothelium Beltraminianum** Mass. Mem. Lich. pag. 115, Rehm Disc. p. 440. — Ascomatibus in areis albis subrotundis gregariis, e rotundo stelliformibus, radiatim expansis, 0,2-1 mm. lat.; ascis 36-45 ≃ 21-24, octosporis; sporidiis oblongis, 7-septato-muriformibus, hyalinis, 15-18 ≃ 6-7. 4772

   Hab. in cortice Carpini et Juglandis in Italia et Germania.

5. **Arthothelium spectabile** (Flot.) Mass. Ric. pag. 54, Rehm Disc. p. 440, *Arthonia* Flot. — Ascomatibus in areis niveis amplis gregariis, inæqualiter ruguloso-ramosis, nigris, 0,2-3 mm. long.; ascis 50-60 ≃ 50, 6-8-sporis; sporidiis ellipsoideis, 5-septato-muriformibus, hyalinis, 25-30 ≃ 10-15. 4773

   Hab. in cortice leviore Alni, Cratægi, Coryli, Quercus, Fraxini in Germania, Helvetia.

6. **Arthothelium subastroideum** Anzi Symb. p. 22, Rehm Disc. p. 441. — Ascomatibus in areis dealbatis gregariis, subrotundis, sæpe maculiformi-confertis, atris, 0,5 mm. lat.; ascis 45-50 ≃ 36-38, octosporis; sporidiis oblongo-ovoideis, 7-9-septato-muriformibus, hyalinis v. flavidulis, 21-24 ≃ 10-12. 4774

Hab. in cortice leviore Pini Cembræ pr. Bormio et Val Furva Ital. bor. (Anzi).

7. **Arthothelium anastomosans** (Ach.) Arnold Lich. n. 514, Rehm Disc. pag. 442, *Arthonia* Ach. — Ascomatibus in areis dealbatis gregariis, rotundo-stellatis, radiatim expansis, 50–200 μ. lat.; ascis 36-40 ≃ 21-25, octosporis; sporidiis oblongo-clavulatis, 5-7-septato-muriformibus, 15-18 ≃ 6-8, hyalinis. 4775

Hab. ad basin truncorum Rhamni Frangulæ, Rhododendri in Helvetia et Tirolia.

8. **Arthothelium Flotowianum** Körb. Par. p. 261, Rehm Disc. p. 442. — Ascomatibus in areis farinoso-leprosis sitis, rotundis, brunneo-nigris, 0,1-1,2 mm. lat.; ascis 100–120 ≃ 27–30, octosporis; sporidiis oblongo-ellipsoideis, medio constrictis, 7-septato-muriformibus ex hyalino luteolis, 30–36 ≃ 10–12. 4776

Hab. in cortice Pinorum, Betulæ in Germania et Helvetia.

9. **Arthothelium fusco-cinereum** (Zwackh) Mass. Catagr. p. 683, Rehm Disc. p. 443, *Arthonia* Zwackh. — Ascomatibus in areis griseis gregariis, subrotundis, 0,1-0,7 mm. lat.; ascis 100-120 ≃ 45, octosporis; sporidiis cuneatis, medio subconstrictis, 7-septato-muriformibus, ex hyalino brunneolis, 27–33 ≃ 12–14. 4777

Hab. in truncis Fagi et Carpini pr. Heidelberg Germaniæ.

10. **Arthothelium Lahmianum** Körb. Par. Lich. p. 263, Rehm Disc. p. 444. — Ascomatibus in areis dealbatis sparsis, subrotundis, brunneo-nigris v. nigris, 0,2-0,3 mm. lat.; ascis 36-40 ≃ 27, bisporis; sporidiis oblongis, subcuneatis, medio subconstrictis, 6-8-septato-muriformibus, 21-24 ≃ 8-9, brunneis. 4778

Hab. in radicibus decorticatis et in cortice Quercuum in Germania.

ONYGENACEÆ Fr. — Syll. VIII, p. 861.

ONYGENA Pers. — Syll. VIII, p. 861.

1. **Onygena corvina** A. et S. — Syll. VIII, p. 861. — Var. **alliacea** Bomm. Rouss. Contr. Myc. Belg. II, p. 7. — A typo odore alliaceo gravi et matrice præcipue differt. 4779

Hab. in foliis alneis putridis dejectis Hoeylaert Belgii. — « An inter folia penna aliqua avis decomposita latebat? »

TUBEROIDEÆ (Vitt.) Paol. — Syll. VIII, p. 863.

Fam. 1. **Elaphomycetaceæ** Tul.

ELAPHOMYCES Nees. — Syll. VIII, p. 863.

1. **Elaphomyces hassiacus** Hesse Hypog. I, p. 32 *). 4780
Hab. ad terram humosam in pinetis, Hessen-Nassau.
2. **Elaphomyces plicatus** Hesse Hypog. I, p. 32. 4781
Hab. ad arenariam variegatam in pinetis, Hessen-Nassau.

Fam. 2. **Tuberaceæ** Fr.

BALSAMIA Vitt. — Syll. VIII, p. 877.

1. **Balsamia fusispora** Schulz. Hedw. 1871, p. 63. — Irregularis, 10 cm. long., 5 lat. et alt., basi radiciformi, 14 mm. cr. prædita, glabra; cortice non secernibili; gleba brunnea, lacunis majoribus et minoribus, parietibus levibus, forma variis; ascis 8-sporis; sporidiis recte monostichis, fusoideis dilute coloratis, utrinque acuminatis et sæpe hyalinis, ob granula longitudinaliter disposita pseudouniseptatis, 18-20 ≃ 5. 4782

Hab. in Hungaria boreali. — Ex ipso auctore dubia species.

HYDNOBOLITES Tul. — Syll. VIII, p. 879.

1. **Hydnobolites Tulasnei** Hesse Hypog. I, p. 32. 4783

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*) *Elaphomycetis, Hydnobolitis* et *Tuberis* species cl. Hessei hic allatæ sine diagnosi, describentur in vol. II ejusdem eximiæ Monogr. Hypog. German. proxime edendo.

Hab. ad terram sabulosam in silvulis pineis et tiliaceis, Hessen-Nassau.

TUBER Mich. — Syll. VIII, p. 882.

1. **Tuber Requieni** Tul. Syll. VIII, pag. 896. — Var. **stramineum** Ferry et Quél. XVI Suppl. p. 4, t. 21, f. 13. — Globosum v. oblongum, 1,5 cm. diam., leve, eburneum, dein stramineum et purpureo-maculatum, pruinosum, dein nitens; cortice duro, tenaci, subtili, hyalino, parum secernibili; gleba molli, dein indurata, albida, fulva, dein subrosea, venis albis venulis hyalinis marginatis minute marmorata; sporidiis ellipsoideis, conferte aculeatis, fulvo-auratis, 25–30 μ. long. 4784

Hab. in humo argilloso-sabulosa in montibus Pyrenæis et in Gallia australi. — Odor moschi vel sinapis.

2. **Tuber Bellonæ** Quél. XVI Suppl. p. 5. — Globulosum, gibberulum, 3-7 cm. diam., nigrum; cortice verrucis pentagoniis, sulcatis asperato; gleba fulvo-cinerea, venis albis et obscuris, cerebriformi-gyrosis minute marmorata; ascis 1-4-sporis; sporidiis globosis, late reticulatis, fulvis, 20-40 μ. diam. 4785

Hab. in humo argilloso-silicea Vaucluse Galliæ. — Odor bituminosus. *T. mesenterico* affine sed sporidiis sphæricis.

3. **Tuber montanum** Chatin Bull. Soc. bot. Fr. 1891, p. 58. — Ascomatibus verrucis convexis majusculis; gleba subgrisea; venis vermicularibus lineis quinque efformatis, linea media alba angusta, lineis binis brunneis binis albis cincta; sporidiis *T. melanospori* sed paullo pallidioribus. 4786

Hab. in montanis Pellafol près Corps Galliæ, alt. 900 m. (Aglot). — Odor debilior quam *T. melanospori.*

4. **Tuber exiguum** Hesse Hypog. I, p. 30. 4787

Hab. ad terram sabulosam et humosam in fagetis et pinetis, Hessen-Nassau.

5. **Tuber De-Baryanum** Hesse Hypog. I, p. 31. 4788

Hab. ad terram calcaream et humosam in fagetis et quercetis, Hessen-Nassau.

6. **Tuber murinum** Hesse Hypog. I, p. 31. 4789

Hab. ad terram humosam et sabulosam in silvulis fraxineis et avellaneis, Hessen-Nassau.

7. **Tuber scruposum** Hesse Hypog. I, p. 31. 4790

Hab. ad terram calcaream in silvulis fraxineis, fagineis et coryleis, Hessen-Nassau.

ONYGENACEÆ Fr. — Syll. VIII, p. 861.

ONYGENA Pers. — Syll. VIII, p. 861.

1. **Onygena corvina** A. et S. — Syll. VIII, p. 861. — Var. **alliacea** Bomm. Rouss. Contr. Myc. Belg. II, p. 7. — A typo odore alliaceo gravi et matrice præcipue differt. 4779

Hab. in foliis alneis putridis dejectis Hoeylaert Belgii. — « An inter folia penna aliqua avis decomposita latebat? »

TUBEROIDEÆ (Vitt.) Paol. — Syll. VIII, p. 863.

Fam. 1. **Elaphomycetaceæ** Tul.

ELAPHOMYCES Nees. — Syll. VIII, p. 863.

1. **Elaphomyces hassiacus** Hesse Hypog. I, p. 32 *). 4780
Hab. ad terram humosam in pinetis, Hessen-Nassau.
2. **Elaphomyces plicatus** Hesse Hypog. I, p. 32. 4781
Hab. ad arenariam variegatam in pinetis, Hessen-Nassau.

Fam. 2. **Tuberaceæ** Fr.

BALSAMIA Vitt. — Syll. VIII, p. 877.

1. **Balsamia fusispora** Schulz. Hedw. 1871, p. 63. — Irregularis, 10 cm. long., 5 lat. et alt., basi radiciformi, 14 mm. cr. prædita, glabra; cortice non secernibili; gleba brunnea, lacunis majoribus et minoribus, parietibus levibus, forma variis; ascis 8-sporis; sporidiis recte monostichis, fusoideis dilute coloratis, utrinque acuminatis et sæpe hyalinis, ob granula longitudinaliter disposita pseudo-uniseptatis, 18-20 ≃ 5. 4782

Hab. in Hungaria boreali. — Ex ipso auctore dubia species.

HYDNOBOLITES Tul. — Syll. VIII, p. 879.

1. **Hydnobolites Tulasnei** Hesse Hypog. I, p. 32. 4783

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*) *Elaphomycetis*, *Hydnobolitis* et *Tuberis* species cl. Hessei hic allatæ sine diagnosi, describentur in vol. II ejusdem eximiæ Monogr. Hypog. German. proxime edendo.

Hab. ad terram sabulosam in silvulis pineis et tiliaceis, Hessen-Nassau.

TUBER Mich. — Syll. VIII, p. 882.

1. **Tuber Requieni** Tul. Syll. VIII, pag. 896. — Var. **stramineum** Ferry et Quél. XVI Suppl. p. 4, t. 21, f. 13. — Globosum v. oblongum, 1,5 cm. diam., leve, eburneum, dein stramineum et purpureo-maculatum, pruinosum, dein nitens; cortice duro, tenaci, subtili, hyalino, parum secernibili; gleba molli, dein indurata, albida, fulva, dein subrosea, venis albis venulis hyalinis marginatis minute marmorata; sporidiis ellipsoideis, conferte aculeatis, fulvo-auratis, 25-30 μ. long. 4784

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   Hab. in humo argilloso-silicea Vaucluse Galliæ. — Odor bituminosus. *T. mesenterico* affine sed sporidiis sphæricis.

3. **Tuber montanum** Chatin Bull. Soc. bot. Fr. 1891, p. 58. — Ascomatibus verrucis convexis majusculis; gleba subgrisea; venis vermicularibus lineis quinque efformatis, linea media alba angusta, lineis binis brunneis binis albis cincta; sporidiis *T. melanospori* sed paullo pallidioribus. 4786

   Hab. in montanis Pellafol près Corps Galliæ, alt. 900 m. (Aglot). — Odor debilior quam *T. melanospori*.

4. **Tuber exiguum** Hesse Hypog. I, p. 30. 4787

   Hab. ad terram sabulosam et humosam in fagetis et pinetis, Hessen-Nassau.

5. **Tuber De-Baryanum** Hesse Hypog. I, p. 31. 4788

   Hab. ad terram calcaream et humosam in fagetis et quercetis, Hessen-Nassau.

6. **Tuber murinum** Hesse Hypog. I, p. 31. 4789

   Hab. ad terram humosam et sabulosam in silvulis fraxineis et avellaneis, Hessen-Nassau.

7. **Tuber scruposum** Hesse Hypog. I, p. 31. 4790

   Hab. ad terram calcaream in silvulis fraxineis, fagineis et coryleis, Hessen-Nassau.

8. **Tuber rutilum** Hesse Hypog. I, p. 31. 4791

Hab. ad terram calcaream in fagetis, Hessen-Nassau.

CRYPTICA Hesse Eine neue Tuberaceengatt. p. 198, t. VI–VIII (Etym. *cryptos* absconditus). — Ascomata carnosa, basi levia et mycelio radicanti prædita, supra floccosa, minute verrucosa et plicato-foveolata; gleba apice lacunis ad ascomatis superficiem non apertis, excavata. Asci tereti-oblongi, basi stipitato-attenuati, vulgo 8-spori. Sporidia globosa, exosporio crasso, eximie obtuseque verrucoso. — Differt a *Genea* et *Hydnocystide* ascis non linearibus, ab *Hydnotrya* exosporio crasso, distincte verrucoso.

1. **Cryptica lutea** Hesse loc. cit. — Ascomatibus sæpius globosis v. 4792
subapplanato-irregularibus, carnosis, basi fibrillis radicantibus, brunneo-rubris præditis; cortice circ. 1. mm. cr., luteo, basi levi, supra minute gibberulo, varie plicato-foveolato, pilis sæpius torulosis obsito; gleba apice lacunis ad ascomatis superficiem apertis perfossa, zonis radiantibus, parallelis, hyalinis, latiusculis, cum aliis angustioribus flavis intermixtis prædita; ascis cylindraceo-oblongatis, basi in stipitem attenuatis, 30–50 μ. lat., sæpius 8-sporis; sporidiis globosis, primo hyalinis dein exosporio crasso, atro-brunneo, obtuse verrucoso præditis, circ. 20 μ. diam., 1-guttatis, granuloso-farctis.

Hab. sub foliis in silvis f a g i n e i s pr. Eisenach et Marburg.

APPENDIX

TRICHOCOMA Jungh. Præm. Jav. pag. 9, f. 7, Fisch. Hedw. 1890, p, 161, t. III (Etym. *thrix* capillus et *coma*), *Trichoskytale* Corda Anl. p. 196 (nomen mutavit ob *Trichocoma* DC. quæ vero non genus sed sectio). — Ascoma sessile, globoso-oblongum, verticale, molliusculum basi indusio tuberoso cupulato persistente auctum, intus longitud. venosum, venæ parallelæ, prismaticæ, brunneæ, ascogenæ, sepimentis pallidioribus (flavidis) filamentosis divisæ. Asci ovato-oblongi, fugaces, suboctospori. Sporidia ellipsoidea, continua, hyalina, demum brunneola, muriculata. — Sec. cl. Massee (Trans. R. Soc. Lond 1887, pag. 305–309, tab. 25) *Trichocoma* esset gasterolichen nempe gonidiis (*Botryococci*) præditus et ascis carens, sed illustratio cl. Fischeri contraria docet.

1. **Trichocoma paradoxa** Jungh. loc. cit., Fisch. loc. cit., *Trichoscy-* 4793
tale paradoxa Berk. Hand. Fl. New. Zeal. p. 617. — Ascomate

tereti-elongato, basi sulphureo, supra fuscescente, 2 cm. alt., 1 cr., indusio rufo-brunneo; margine flavicante; ascis ex ovato inæqualibus subsessilibus, 15-20 = 10-12; sporidiis ellipsoideis, 5-7 = 5.

Hab. gregatim in truncis erosis, putridis in Java, Nova Zelandia, Himalaya, Nepal, Neel-Gherries.

2. **Trichocoma levispora** Massee Trans. R. Soc. Lond. 1887, tab. 25, 4794
T. paradoxa Berk. p. p. — A specie præcedente differt statura minore et præsertim sporidiis levibus.

Hab. in lignis putridis in Carolina inferiori Amer. bor.

MYXOMYCETEÆ Wallr. *) — Syll. VII, p. 323.

Sect. 1. Amaurosporæ Rost.

BADHAMIA Berk. — Syll. VII, p. 329.

1. **Badhamia? pulcherrima** Speg. F. Puigg. n. 187. — Peridiis dense aggregatis, cylindraceo-ellipsoideis, 1-1,2 mm. alt., 0,5-0,6 mm. cr., albo-cinereis, hypothallo arachnoideo insidentibus, tunica duplici vestitis; tubulis simplicibus brevissimis hyalinis reticulato-connexis calcareis; sporis globosis, levibus, atro-fuligineis, 10-15 μ. diam. 4795

Hab. Ad corticem putrescentem arborum in silvis prope Apiahy, Brasilia. — Peridiorum greges orbiculares 10-100 mm. diam.; granula calcarea alba numerosa minuta 1-2,5 μ. diam.; species pulcherrima, peridiorum fabrica distinctissima, et facile a genere *Badhamia* separanda.

2. **Badhamia nodulosa** (Cooke et Balf.) Massee Journ. Myc. 1889, p. 186, *Physarum* C. et B. in Rav. F. Am. n. 479. — Peridiis globosis, stipitatis, tenui-tunicatis, 1,5 mm. alt. supra plerumque hyalinis et crusta calcarea alba asperula tectis, infra absque calce et amœne iridescentibus, demum inæqualiter ruptis; stipite peridium superante sæpe subdecumbente brunneo, longitud. noduloso, basi in hypothallum minutum irregularem expanso; columella nulla; capillitio copioso, applanato, ramoso, nodis amplis inæqualibus 4796

*) Cfr. potissimum Raunkier Myxomycetes Daniæ, Copenh. 1888; Massee Revision of Trichiaceæ, Lond. 1889; Lister Notes on Mycetozoa, nec non Grevillea XVI, p. 18 et 116, XVII, p. 18, 39, 49; in quibus operibus emendationes nonnullæ ad species jam notas simul inveniuntur.

granula calcea gerentibus; sporis globosis, sordide lilacinis, minute verrucosis, 8-10 μ. diam.

Hab. in cortice Acaciæ, Aiken Carolinæ inf.

3. **Badhamia penetralis** C. et Ell. Grev. V, p. 49, t. 80, f. 1. — Gregaria, stipitata; peridiis subglobosis, albidis, demum atris; capillitio atro-fusco; stipite penetrante fusco-atro; sporis globosis, atro-fuscis, in massas sphæricas diu conglobatis. 4797

Hab. in asseribus pineis non omnino putridis, New Jersey Amer. bor.

PHYSARUM Pers. — Syll. VII, p. 336.

1. **Physarum Carlylei** Massee Grev. XVII, p. 56. — Peridiis stipitatis, globosis, aurantio-miniatis, minute furfuraceis; stipite peridii diametrum subæquante, crasso, ruguloso, miniato, in hypothallum tenue plicatum deorsum expanso, capillitio tenui, flavo, floccis dense reticulatis, angulis incrassatis et granula calcea aurantia continentibus; columella nulla; sporis globosis, levibus, sordide violaceis, 7-8 μ. diam. 4798

Hab. ad ligna putrescentia, Carlisle Britanniæ (Doct. Carlyle). — Peridia 1,5-2 mm. alt. solitaria, binata vel ternata. Distincta species ad *Phys. rubiginosum* accedens, sed sporis minoribus, peridiis stipitatis subsparsis mox distincta.

2. **Physarum Calidris** A. Lister Journ. of Bot. 1891, p. 258, t. 308, f. 2. — Peridiis subglobosis, 0,5 mm. diam., sparsis, niveis, rugosis, stipitatis, tunica incolori, ob granula calcea incrassatâ; stipite subdiaphano, 1-1,5 mm. long., subulato, erecto, sulcato, rubente; columella nulla; floccis hyalinis, ramosis, angulis dilatatis; nodis calceis variis, 10-40 μ. diam.; sporis brunneo-violaceis, levibus, 8-10 μ. diam. 4799

Hab. in foliis dejectis, Lyme Regis Britanniæ. — *P. leucophæo* affine.

3. **Physarum tenerum** Rex Descript. Myxom. pag. 192. — Peridiis stipitatis, erectis vel pendulis, exacte sphæricis, circ. 1/3 mm. diam., tunica simplici, membranacea, granulis calcareis, circularibus, applanatis, flavis asperata, dein laciniatim fissa; stipite 1-1,5 mm. alt., subulato, opaco, gracili, supra dilute flavo, subtus ad brunneum vergente, basi tantum vel omnino longitudinaliter striato; columella nulla; capillitio albo, delicato, laxe regulariterque reticulato, ad intersectiones granulis calcareis, numerosis, minutis 4800

instructo; sporis atro-brunneis, minutissime delicateque verruculosis, 7,5–8 μ. diam.

Hab. in Fairmount Park Philadelphia et Ohio (MORGAN).

4. **Physarum scyphoides** Cooke et Balf. in Massee Journ. Myc. 1889, 4801
p. 186. — Peridiis globosis v. late obovatis, stipitatis, tunica superne albida ob granula calcea amorpha rugosa, infra late brunnea et tamquam cupula inæquali persistente; stipite peridium subæquante, late brunneo, sursum subattenuato, inæqualiter nodoso et sæpe compresso et contorto in hypothallum minutum brunneum basi expanso; capillitio denso, nodis calcareis albis flavidisve, copiosis, amplis, inæqualiter ramosis, basi constipatis columellamque fere formantibus; sporis globosis, lilacino-brunneis, minute verrucosis, 7–9 μ. diam.

Hab. in foliis vivis, graminibus, Darien Georgiæ (RAVENEL).

CHONDRIODERMA Rost. — Syll. VII, p. 362.

1. **Chondrioderma Puiggarii** Speg. F. Puigg. n. 188. — *Leangium*? 4802
peridiis e globoso ellipsoideis, 400-600 × 250-400, sessilibus, gregariis, cortice rufo-fulvo frustulatim evanescente tectis, gleba fusco-fuliginea; capillitio parco hyalino, columella destituto, floccis parcis, furcatis, nodulis triangulari-applanatis; sporis globosis, asperulis, fusco-fumosis, 8–10 μ. diam.

Hab. ad folia viva Leucobryi longifolii in silvis prope Apiahy Brasiliæ.

DIDYMIUM Schrad. — Syll. VII, p. 375.

1. **Didymium australe** Massee Grev. XVII, p. 7. — Sporangiis grega- 4803
riis globosis v. leniter compressis, 2 mm. lat., 1,5 mm. alt. obsolete umbilicatis, strato crystallorum denso albo, in squamas secedente, tectis; stipite elongato, erecto, filiformi, 3-4 mm. longo, læte brunneo, deorsum leniter incrassato, floccis capillitii hyalinis, tenuibus, varie ramosis; sporis globosis, levibus e fumoso purpureo-brunneis, 10-11 μ. diam.

Hab. in Auricularia vetusta, Brisbane Australiæ (BAILEY).

2. **Didymium tenue** Pat. Bull. Soc. Myc. 1888, pag. 96. — Peridiis 4804
sparsis, globulosis, stipitatis, cinereo-nigris, crystallis elongatis stellato-congestis tectis, intus nigris; capillitio calce carente, incolori, tenui et ramoso; columella globosa exigua; sporis globulosis 7–8 μ. diam., levibus, violaceis; stipite gracili, brunneo; hypothallo minuto, orbiculari.

Hab. in foliis dejectis, Puerto Zamuro Venezuelæ.

3. **Didymium Fairmani** Sacc. Journ. Myc. 1889, pag. 78 et 180. et Fairm. Contr. Myc. West. N. Y. p. 52, t. III, f. 7-9. — Peridiis sparsis, sessilibus, subcinereis, 1-1,3 mm. diam.; floccis laxe reticulatis, hyalinis, crystallis copiosis, eximie stellatis; columella subglobosa, brunneola; sporis globosis, levibus, 8-10 μ. diam. 4805

Hab. in foliis nondum emortuis Smilacinæ bifoliæ, Lyndonville Orleans County, N. Y. Amer. bor.

4. **Didymium ossicolum** Pat. Bull. Soc. Myc. 1888, p. 95. — Peridiis sparsis, stipitatis, globulosis, albo-citrinis, granulosis, calce incrustatis, inæqualiter laceratis, intus brunneo-rubris; capillitio calce carente, ramoso, incolori; sporis globulosis, levibus, rufis, 7-9 μ. d. 4806

Hab. in ossibus bovinis coacervatis, Caracas. — Peridia 4-5 mm. alta.

5. **Didymium Bonianum** Pat. Journ. Bot. 1891, pag. 316. — Peridiis aggregatis numerosis in hypothallo communi tenui brunneo, subinde duobus confluentibus, stipitatis, globulosis, $^2/_3$ mm. diam., infra umbilicatis, griseo-cinereis, flavo-nitentibus, ob crystalla calcarea stellata farinaceo-furfuraceis; massa sporarum nigra; columella globulosa, ochracea; capillitio parco, hyalino vel vix violaceo, vix 1 μ. diam., ramoso, undulato, spirali, calce carente, e columella ad peripheriam radiante; sporis violaceis, globosis, asperulis, 8-10 μ. diam.; stipite peridium æquante, albido, plus minus plicato utrinque incrassato. 4807

Hab. in foliis putridis ad terram, Tonkin.

6. **Didymium affine** Raunk. Myx. Dan. p. 71, t. 5, f. 3-4, Descr. Engl. p. 92. — Peridiis e globoso hemisphæricis; stipite tenui, peridio æquilongo v. longiore, basi in hypothallum orbicularem dilatato, læte brunneo; membrana grisea, non calcarifera, sub lente hyalina; columella e globoso semiglobosa, læte brunnea, capillitii tubulis subhyalinis, in ampullas numerosas, breviter fusoideas, brunneo-violaceas dilatatis; sporis levibus vel delicate verrucosis, 8-9 μ. diam. 4808

Hab. in seminibus quibusdam, Copenhagen.

7. **Didymium subcastaneum** Romell F. exs. Scand. n. 100. — Peridiis aggregatis vel dense sparsis, sphæroideis vel obovatis, breve stipitatis v. subsessilibus, cervino-castaneis, subnitidis, sub lente reticulato-marmoratis, 1 mm. diam.; stipite concolori, brevissimo; tunica peridii calcarea, crassiuscula, dura sed fragili; floccis fuscis, 2-4 μ. cr., reticulato-connexis, hinc inde noduloso-incrassatis, haud 4809

calcareis, fuscis, sursum angustatis pallidioribusque; columella non visa; sporis sphæroideis, subtiliter denseque verruculosis, fuscis, 12–15 μ. diam.

Hab. in foliis putridis Betulæ etc., Kumla Sueciæ. — Ovula insectorum æmulatur.

COMATRICHA Preuss — Syll. VII, p. 394.

1. **Comatricha longa** Peck 43 Rep. p. 24, t. III, f. 1–5. — Stipitibus in hypothallo nitido membranaceo dense gregariis, in peridium tamquam columella penetrantibus, capillaribus, nigris; peridiis anguste cylindraceis, sæpius elongatis, 12–40 mm. long., flexuosis, fugacibus, cinereo-nigris; capillitio e columella oriente, ramis basi laxe subreticulatis, extus in ramulos tenues acutos divergentes spinuliformes, liberos divisis, nigricantibus; sporis globosis, levibus, 7-9 μ. diam.

Hab. in cortice Salicis babylonicæ, Flatbush Amer. bor. (Zabriskie).

2. **Comatricha subcæspitosa** Peck 43 Rep. pag. 25, t. III, f. 6-9. — 4811
Stipitibus subcæspitosis vel laxe aggregatis, basi incrassatis, nigris peridium dimidium æquantibus, et in illud intrantibus tamquam columella; peridiis ovato-oblongis, obtusis, fugacibus, capillitio e columella oriundis, reticulatim connexis et rete superficiale laxum nigricans formantibus; sporis globosis, levibus, atro-brunneis, 10–12 μ. diam.

Hab. in ligno decorticato Tsugæ canadensis, Sandlake Amer. bor. — *Com. typhinæ* subaffinis.

STEMONITES Gled. — Syll. VII, p. 397.

1. **Stemonites confluens** C. et Ell. Grev. V, p. 51, t. 80, f. 3. — Fa- 4812
sciculata, in hypothallum persistentem confluens, atro-fusca; peridiis fugacissimis; stipitibus furcatis, erectis, basi conjunctis; sporis brunneis, majusculis, globosis, 12 μ. diam.

Hab. in cortice quercino, New Jersey Amer. bor.

2. **Stemonites subclavata** Zoll. Flora 1847, p. 301. — Subfasciculata; 4813
peridiis fugacissimis, subclavatis apice subattenuatis, capillitio remote reticulato sporisque alutaceo-rufis, oblongiusculis.

Hab. in truncis putridis, Bantam Javæ. — Hypothallus persistens corneus; peridium stipite duplo longius, 4 mm. long. circ.

CLASTODERMA Blytt in Botan. Zeitung 1880, pag. 343 et Clastod.

Christianiæ 1882 cum tabula (Etym. *clastos* fractus et *derma*). — Peridia discreta, calce destituta, stipitata, columella brevissima aut subnulla. Capillitium e columella ortum, ramis solidis, lilacinis demum lutescentibus, repetito bifurcatis, ramulis non anastomosantibus. Peridii maturi membrana in fragmenta membranacea subhyalina inter se libera et distantia divisa. Fragmenta irregulariter rotundata, oblonga vel polygona, ramulis ultimis capillitii singulis vel 2–5 affixa. Sporæ lilacinæ.

1. **Clastoderma De-Baryanum** Blytt loc. cit. — Peridiis sphæroideis, 4814
$^1/_5$–$^1/_4$ mm. diam., stipite fusco-flavescente, erecto 1,3–1,4 mm. long., e basi latiori versus apicem sensim attenuato, basi 212 μ., apice 8 μ. cr., ad basin columellæ annulo membranaceo angustissimo cincto; columella subnulla, rotundata vel brevissima, 30 μ. long., apice dilatato rotundata; sporis sphæroideis, levibus 9,5–11 μ. diam.; membranæ fragmentis 10–15 μ. diam. v. 30 μ. long.

Hab. in Polypori emortui facie inferiori gregarie insidens, in silva abiegna prope Fornebo Christianiæ Norvegiæ.

ANCYROPHORUS Raunk. Myx. Dan. p. 75, t. 5, f. 8–9, Descr. Engl. pag. 93 (Etym. *ancyra* ancora et *phoreo* fero). — Peridia stipitata. Columella peridii apicem attingens, et superne in membranam discoideam expansa. Capillitium e disco et superiore parte columellæ oriens, filamentis apice tantum furcatis, ramulis ultimis hamatis, spinulis numerosis, subulatis præditis. Sporæ globosæ, violaceæ.

1. **Ancyrophorus crassipes** Raunk. loc. cit. p. 76, Descr. Engl. p. 93. 4815
— Peridiis globosis, stipitatis; stipite peridio breviore, basi valde incrassato; columella subulata, apice in discum validum expansa; capillitii filamentis ramulis transversis paucissimis connexis, ramulis ultimis hamatis et spinulis numerosis, subulatis præditis; sporis levibus v. delicate verrucosis, læte violaceis, 10–12 μ. diam.

Hab. in ligno putri, Sealand Daniæ.

Sect. 2. Lamprosporæ Rost.

ORCADELLA Wing. in Proc. Acad. Nat. Sc. Philad. 1889, p. 280-281 cum ic. (Etym. *orca* vas fictile). — Peridia stipitata, tegumento crassiusculo prædita apiceque membrana tenui, definite operculiformi, plus minus depressa instructa. Columella et capillitium nulla.

— Ex hoc genere familiam propriam (*Orcadellaceæ*) constituit auctor.

1. **Orcadella operculata** Wing. loc. cit. — Peridia minutissima, 0,37-1,25 mm. alt.; massa sporacea flavida; sporis globosis, levibus 8-10 μ. diam. 4816

Hab. in cortice Quercus rubræ in Philadelphia et Maine Amer. bor.

LICEA Schrad. — Syll. VII, p. 404.

1. **Licea guaranitica** Speg. Guar. I, p. 140. — Peridiis laxe gregariis, superne obscure ochraceis et hemisphæricis, inferne cinerescentibus et obconicis, 0,5-1 mm. diam. calce et columella destitutis; stipite elongato crassoque, 1-2 mm. long., 0,2-0,3 mm. cr., fusco-ochraceo, basi incrassatulo, hypothallo sordide fusco, mucedineo, crustaceo lateque diffuso insidente; gleba peridio concolori; capillitii tubulis dimorphis, aliis crassiusculis, 4-5 μ. cr., levissimis, parce ramosis septatisque, aliis tenuissimis, 1,5-2 μ. diam., dense ramoso-anastomosantibus, hinc inde denticulato-nodulosis, hyalinis, dense septatis; sporis globosis vel hemisphæricis, 4-8 μ. diam., grosse 1-guttulatis, sæpe caudula tortuosula, 4,5 = 1 donatis. 4817

Hab. in corticibus putrescentibus in silvis pr. Guarapi Brasiliæ.

2. **Licea spumarioidea** Cooke et Mass. Grev. XVI, p. 74. — Plasmodiis irregularibus, cinereis, cortice membranaceo, venis ramulosis reticulatis; sporangiis mox diffluentibus; capillitio obsoleto; sporis majusculis, sphæricis, rotundato-verrucosis, flavis 16-18 μ. diam. 4818

Hab. ad ramos, quos ambit et ad terram prope Melbourne Australiæ (Reader).

3. **Licea incolor** Zoll. in Flora 1847, p. 300. — Conglomerata, peridiis subclavatis, nitidissimis; sporis subconcoloribus pallide-ferrugineis. 4819

Hab. in trunco putrido silvulæ humidæ prope Bantam Javæ. — Tota vix 2 mm. alta; hypothallus rugosus, tremellinus. — An, præeunte Rost., forma *Tubulinæ cylindricæ?*

TUBULINA Pers. — Syll. VII, p. 406.

1. **Tubulina cylindrica** (Bull.) DC. — Syll. VII, 1, p. 406 — var. **acuta** Peck in Fairm. Contr. Myc. West. N. Y. p. 53. — A typo recedit peridiis apice acutis nec rotundatis. 4820

Hab. in truncis putridis in silvis Western New York Amer.

bor. — Teste Niel in Bull. Soc. Myc. 1891, p. 98, *Tubulina fragiformis* Pers., quæ ab ill. Rostafinskio cum *T. cylindrica* conjungitur, ab hac differret colore rubro-cerasino, nec argillaceo-cremeo et habitatione in Coniferis nec in frondosis.

ENTERIDIUM Ehrenb. — Syll. VII, p. 409.

1. **Enteridium macrosporum** Raunk. Myx. Dan. p. 31, t. 2, f. 1. — 4821
Æthaliis hemisphæricis, circ. 2 mm. diam., primo rubentibus, dein olivaceis; sporis 5-25 in massulas ex ovoideo globosas conjunctis, latere tantum convexo spinulosis, 12-14 μ. diam.

Hab. in ramis abietinis prope Copenhagen.

2. **Enteridium Rostrupii** Raunk. Myx. Dan. p. 31, Descr. Engl. p. 89. 4822
— Æthaliis irregularibus, elongatis, usque ad 4 cm. long.; peridiis unistratosis, olivaceis, parietibus lateralibus maturitate late et ovaliter perforatis; massa sporacea olivacea; sporis 5-25 in massulas ex ovoideo ellipsoideas congestis, latere convexo tantum verrucosis, 11-12 μ. diam.

Hab. in truncis abietinis et ramis querneis pr. Horsens in Jutland.

3. **Enteridium antarcticum** Speg. F. Fueg. n. 363. — Plasmodio pul- 4823
vinulato plano, irregulariter sublineari vel repandulo-subramuloso 3-14 mm. long., 3-5 mm. lat., 0,5-1 mm. crass., sordide olivascenti-virescente, levi; sporis in glomerulos globulosos 20-30 μ. diam. conglutinatis, hemisphæricis vel irregulariter angulosis, 9-10 μ. diam., ubique levibus, pallide virescentibus.

Hab. ad cortices vel ligna decorticata muscosa in silvis in Burnt island Fuegiæ. — Vix ab *En. olivaceo* sporis levibus differt.

CRIBRARIA Pers. — Syll. VII, p. 412.

1. **Cribraria ? perpusilla** Speg. F. Guar. II, n. 157. — Sporangiis 4824
e globoso piriformibus, minutis 200-250 μ. diam., albis, levibus, glabris, inferne in stipitem erectum teretem striato-rugulosum subtortum 300-400 = 50-80, rufescentem pusillum, glabrum basi abrupte areolatum-expansum productis; cortice sporangii superne frustulatim evanescente, inferne cupulatim persistente, tenui membranaceo, rigidulo; columella, floccis ac granulis calcareis nullis; sporis globosis vel e mutua pressione angulosis 10 μ. levibus pallide fumoso-subvinosis.

Hab. ad folia viva Phari latifolii in silvaticis montanis, Cerro de Acahy vocatis Brasiliæ.

PERICHÆNA Fr. — Syll. VII, p. 420.

1. **Perichæna nitens** Raunk. Myx. Dan. p. 38, t. 2, f. 11, Descr. Eng. p. 90. — Peridiis simplicibus v. parce gregariis, globoso-piriformibus, sessilibus vel breviter stipitatis, regulariter dehiscentibus, griseo-brunneis et leviter violaceo-metallicis, circ. 0,5 mm. lat., membrana simplici, fere levi; capillitii tubulis longis, subramosis, peridii membranæ dilatato-adfixis, inæqualiter delicatissimeque spinulosis, æqualiter 1-1,5 μ. cr., flavido-hyalinis; sporis delicate spinulosis, flavido-hyalinis, 10-12 μ. diam. 4825

   Hab. in cortice Quercus et Abietis et in foliis dejectis Pini, Sealand et Jutland Daniæ.

2. **Perichæna cano-flavescens** Raunk. Myx. Dan. p. 37, t. 2, f. 10, Descr. Engl. p. 90. — Peridiis gregariis, hypothallo tenui, flavo-griseo insidentibus, e globoso hemisphæricis vel ex elongato reniformibus, sessilibus, circ. 0,5 mm. lat., læte flavo-griseis, plus minus regulariter operculatim dehiscentibus, membrana granulis rotundis v. angulosis, numerosis asperata et in parte superiore et interiore regulariter tenuiterque incrassato-reticulata, areis 5-6-goniis 12 μ. diam.; capillitio vix manifesto, e filamentis paucis, subramosis v. simplicibus, inæqualiter verrucosis, ex hyalino flavidis, 1,5-2 μ. lat. verrucis exclusis; sporis aureo-flavis, delicate verrucosis, 12,5-14 μ. diam. 4826

   Hab. in cortice Fagi in Lolland Daniæ.

3. **Perichæna phæosperma** Karst. in Rev. Myc. 1887 et Symb. Fenn. XVIII, p. 84. — Peridiis gregariis, sessilibus, rotundato-depressis, e cyaneo dilute badiis, opacis, areolatim dehiscentibus; capillitio parum evoluto, tubulis circ. 1,5 μ. crassis; sporis sphæroideis, levibus, atro-fuscis (sub lente fuscidulis), 9-15 μ. diam. 4827

   Hab. supra ligna et cortices Populi tremulæ locis udis umbrosis pr. Mustiala in Fennia.

4. **Perichæna vermicularis** (Schw.) Rost. — Syll. VII, p. 421. — Sec. Massee Grev. XX, p. 38, huc spectant *Ophiotheca umbrina* Ell. et *Per. variabilis* Massee. Sporæ 13-14 μ. diam. — Nascitur quoque in lignis Yatton Britanniæ (Bucknall). Cl. Massee nomen novum l. c. (*Per. confusa*) adhibet, sed ratio latet.

5. **Perichæna? Pseudoæcidium** Speg. Guar. I, p. 140. — Peridiis conicis, cylindraceis v. calyciformibus, 1-1,5 mm. long., 0.5-1 mm. diam., sessilibus v. breviter stipitatis, tunica tenuissime cartilagineo-membranacea donatis, basi levibus v. minute rugulosis, apice 4828

irregulariter laciniatim v. fimbriatim dehiscentibus, castaneis v. fusco-tabacinis; gleba citrina v. flavescente; capillitii tubulis tenuissimis, 1 μ. cr., parce ramosis, levissimis, hinc inde spinulis solitariis conicis v. elongato-subramuliformibus ornatis, flavescenti-hyalinis; sporidiis globosis, 6-7 μ. diam., e mutua pressione sæpe compresso-angulosulis, levissimis, dilute flavescenti-vinosis.

Hab. ad folia viva Filicum plurimarum nec non Tillandsiæ muscoidis in Sierra de Tehololo Brasiliæ.

CORNUVIA Rost. — Syll. VII, p. 423.

1. **Cornuvia depressa** A. Lister Journ. of Bot. 1891, p. 264, t. 311, fig. 3. — Peridiis pulvinatis, depressis vel effusis, 2-10 mm. lat., 0,3 mm. cr., brunneo-griseis, nitidulis, tunica levi translucida brunneola, basi incrassata; capillitii profusi floccis, pallide umbrinis, inæqualibus, 0,5-2 μ. cr. furcatis, subinde fasciculatis, apice abrupte acuminatis; sporis globosis, delicate spinosis, pallidissimis, 6-8 μ. diam. 4829

Hab. in ramis putrescentibus Fraxini prope Lyme Regis Britanniæ.

2. **Cornuvia minutula** Speg. F. Puigg. n. 196. — Peridiis ovoideis stipitatis, purpureo-fuscis, levibus, opacis, 0,5-0,6 mm. diam.; stipite longiuscolo, tenui, 2-3 mm. long., 120-150 μ. cr. coccineo-roseo, capillitio reticulato, tubulis spiraliter 4-tæniolatis, 5-6 μ. cr., flavescentibus; sporis globosis, levibus, flavescentibus, 6-7 μ. diam. 4830

Hab. ad terram pinguem muscosam (an in radicibus putrescentibus?) in pratis prope Apiahy Brasiliæ. — Species pusilla humigena, habitu fere *Stilbi* cujusdam.

ARCYRIA Hall. — Syll. VII, p. 425.

1. **Arcyria Winteri** Wettst. Bot. Zeitschr. 1885, p. 199. — Peridiis gregariis numerosis, cuticulæ tenuissimæ insidentibus, campanulato-ovoideis, apice obtusis, 1-1,5 mm. long., 0,7-1 mm. cr., aurantiacis, stipite tenui, recto, 1-3 mm. long., capillitii floccis tenuibus, hyalinis, reticulatim connexis, unilateraliter verruculosis; sporis globosis, 5-8 μ diam., aurantiacis, levibus vel tenuissime verruculosis. 4831

Hab. in asseribus putrescentibus in fodinis Stiriæ. — Ab *A. ochroleuca* in primis stipite longiore differt.

2. **Arcyria dictyonema** Rost. — Syll. VII, p. 431. — Sec. Grev. XVIII, pag. 20 adest forma lecta in lignis Smethwick a claro A.

Camm differens peridiis vix stipitatis, olivaceis, floccis sporas æquantibus, non vero spinosis, sporis non omnino levibus, sed minute verruculosis. « An specifice distinguenda? ».

3. **Arcyria aurantiaca** Raunk. Myx. Dan. p. 44, t. 3, f. 4 et 9-11, Descr. Engl. p. 92. — Peridiis gregariis, ovoideis v. breviter cylindraceis, stipite æquilongis v. longioribus, membrana intus minute verrucosa, e lateritio aurantiaca; capillitii tubulis e lateritio aurantiacis, 5-7 μ. cr., irregulariter et conferte incrassato-annulatis; sporis levibus, 10-11 μ. diam., e lateritio aurantiacis. 4832

Hab. in ligno putri in Jutland Daniæ.

4. **Arcyria punicea** Pers. cfr. Syll. VII, pag. 426. — Var. **cribroides** Raunk. Myx. Dan. p. 43, t. 3, f. 12, Descr. Engl. p. 91. — Areis seu maculis interioribus æqualibus, in capillitii superficie majusculis cum minutissimis alternantibus. 4833

Hab. in lignis putridis in Jutland Daniæ.

5. **Arcyria cinerea** (Bull.) Schum. cfr. Syll. VII, p. 427, — Var. **cribroides** Raunk. Myx. Dan. p. 41, Descr. Eng. p. 90. — Capillitii tubulis quam in typo latioribus; areis seu maculis interioribus æqualiter crassis, in capillitii superficie majusculis cum minutissimis alternantibus. 4834

Hab. in ramis dejectis Abietis pr. Copenhagen.

6. **Arcyria viridis** Zoll. in Flora 1847, p. 300. — Peridiis gregariis, substipitatis, obovato-clavatis, pulcherrime viridibus, 1/4 mm. long.; hypothallo tenuissimo floccoso-membranaceo, viridi; stipite 1/5 mm. cr. spurio; capillitio compacto; sporis globosis peridio concoloribus. 4835

Hab. ad culmos putres Bambusæ in horto botanico Bogor Javæ.

TRICHIA Hall. — Syll. VII, p. 438.

1. **Trichia Carlyleana** Massee Rev. Trich. p. 5. fig. 15. — Peridiis clavatis v. tereti-oblongis stipitatis, purpureo-brunneis, levibus; stipite peridium dimidium æquante, in basin discoideam subincrassato, substriato, concolori; tunica peridii intus stipitisque cavitate massulis rubentibus præditis; elateribus fusoideis, 5-6 μ. cr., sæpe ramosis, apice longe et flexuose spinosis; spiralibus confertissimis; sporis globosis, levibus, 10-12 μ. diam. 4836

Hab. ad ligna Carlisle in Britannia (Doctor Carlyle). — Fungillus 2-3 mm. alt.

2. **Trichia nitens** Fr. in Massee Rev. Trich. p. 9, f. 11. — Peridiis lata basi sessilibus, confertis, e globoso angulosis, late flavis, niti- 4837

dis, intus sordide aurantiis; elateribus cylindricis, 14-16 μ. cr., breviusculis; apicibus brevibus, abruptis, levibus; spiralibus prominulis, remotis, non spinulosis; sporis globosis, verrucosis, 14-16 μ. diam.

Hab. ad ligna, Upsala Suecia (Fries). — Habitus *Oligonematis nitentis.*

3. **Trichia subfusca** Rex Descript. Myxom. p. 192. — Peridiis stipitatis, solitariis v. 2-3 gregariis, plerumque exacte sphæricis, raro globoso-turbinatis, circ. $^1/_2$-$^2/_3$ mm. diam., supra fusco-fulvis, basi atro-brunneis; stipite æqualiter crasso, $^1/_2$-$^2/_3$ mm. alt., brunneo v. brunneolo-nigro, longitudinaliter rugoso, a peridii cavitate ob stratum membranæ interiorem separato; capillitio læte flavo; elateribus cylindraceis 3,5-4 μ. diam. in apiculos leves, 10-12 μ. long., desinentibus; tæniolis spiralibus quaternis, non spinulosis; sporis delicate verrucosis, 11,5-12,5 μ. diam., læte flavis. 4838

Hab. in montibus Adirondack Amer. bor. — *Tr. fragili* affinis.

4. **Trichia advenula** Massee Rev. Trich. p. 12, fig. 38. — Sessilis, dense conferta, rarius sparsa, e globoso subangulosa, flava, nitidula intus aurantia; elateribus cylindricis, 4-5 μ. cr., hinc v. utrinque incrassatis nec non semel-ter intercalari-inflatis, in spinulam subflexuosam, tenuem, 15-20 μ. long. terminatis; spiralibus creberrimis, vix prominulis, in partibus inflatis obsoletis; sporis globosis, minute verruculosis, 12-14 μ. diam. 4839

Hab. in ligno putri Glamis in Scotia. — *Tr. minimæ* affinis; cæspitulos 2-5 cm. lat. format.

5. **Trichia minima** Massee Rev. Trich. p. 12, fig. 18. — Peridiis confertis, lata basi sessilibus, e circulari inæqualibus, pallide flavis, intus concoloribus; elateribus cylindricis, 6-7 μ. cr., in spinulam 8-10 μ. long. desinentibus; spiralibus tenuibus, subdistantibus, non prominulis, levibus; sporis globosis, minutissime verrucosis, 10 μ. diam. 4840

Hab. ad ligna, Oldham Britanniæ.

6. **Trichia nana** Massee Rev. Trich. p. 12, fig. 12. — Perithecils sparsis v. aggregatis, lata basi sessilibus, levibus, pallide ochraceis, opacis, intus flavis, tunica tenuissima; elateribus cylindraceis 3-4 μ. cr., spiralibus, irregularibus, remotis prominentibusque; apicibus abruptis; sporis globosis, minute verruculosis, 6-8 μ. diam. 4841

Hab. ad ligna, Westbrook Maine Amer. bor. — Elateres 200 μ. long. circ.

7. **Trichia erecta** Rex descript. Myxcom. p. 193. — Peridiis stipitatis, solitariis, raro 2-3 gregariis, rarissime 6-8 cum stipite unico

fasciculatis, globosis v. globoso-turbinatis, $^1/_2$-$^2/_3$ mm. lat., atro-brunneis, supra irregulariter interrupte atro-brunneis e reticulo læte flavo, irregulari notatis; stipite circ. 1 mm. alt., rugoso v. granuloso, æqualiter crasso, atro-brunneo; capillitio læte flavo; elateribus cylindraceis, 3,75-4 μ. diam., in apiculos leves, acutos, 4-6 μ. long. desinentibus; tæniolis spiralibus quaternis, irregulariter convolutis, spinulis numerosis, irregularibus asperatis; sporis 12-13 μ. diam., delicate verruculosis, læte flavis.

Hab. in Shawangunk et in montibus Adirondack. — *Tr. fragili* subaffinis.

8. **Trichia sulphurea** Massee Rev. Trich. p. 15, fig. 3. — Peridiis 4843
dense confertis, e circulari subangulosis v. reniformibus, pallide flavis, levibus, intus subcitrinis; elateribus cylindricis, sæpe ramosis, 9-10 μ. cr.; spiralibus confertis, sat prominulis, apicibus non incrassatis, acutis, levibus, 10-14 μ. long.; sporis globosis, 10-14 μ. diam., plane costatis, costis interruptis, lunulatis.

Hab. ad ligna Ceylon. — Peridia 0,5-1 mm. diam. — Affinis *Tr. nitenti.*

9. **Trichia Balfourii** Massee Rev. Trich. p. 15, fig 4. — Peridiis ses- 4844
silibus, confertis, ex hemisphærico angulosis, pallide flavis, intus fusco-flavis, elateribus cylindricis, 9-10 μ. cr., infra apicem inflatis, apice 2-3-spinulosis; spiralibus laxiusculis, non prominentibus, muriculatis; sporis globosis, plane et interrupte costatis, 16-18 μ. diam.

Hab. ad ligna ad Caput Bonæ Spei. — Affinis *Tr. Jackii.*

10. **Trichia abrupta** Cooke Myx. U. S. p. 404, Syll. VII, p. 446 (sine 4845
diagnosi), Massee Rev. Trich. p. 16. f. 2. — Peridiis dense gregariis in hypothallo bene evoluto basi lata sessilibus e globoso angulosis, pallide flavis, intus aurantiis; elateribus cylindraceis, 8-11 μ. cr., spiralibus remotiusculis, non prominentibus, vix spinulosis apice abrupte in 2-3 spinulas rectas v. curvas 8-10 μ. longas desinentibus; sporis globosis, 10-16 μ. diam., inæqualiter plano-costatis, costis oblongis interruptis foveolatis.

Hab. ad ligna in Britannia et America boreali.

11. **Trichia intermedia** Massee Rev. Trich. p. 17, fig. 1. — Peridiis 4846
subglobosis sessilibus, confertis, sæpe inæqualibus, nitidulis, læte ochraceis, intus flavidulis; floccis simplicibus, 10 μ. cr., in apiculum brevem desinentibus; spiralibus confertis, non prominulis, hinc inde breve spinulosis, tæniolis transversis connexis; sporis globo-

sis 9-11 μ. diam. inæqualiter plano-costulatis, costulatis interruptis, foveolatis.

Hab. ad truncos Scarborough Britanniæ.

12. **Trichia verrucosa** Berk. in Flor. Tasm. p. 269, Massee Rev. Trich. p. 19, fig. 9. — Peridiis piriformibus, brunneo-castaneis, nitidis, in stipitem longum, tenuem abeuntibus, simplicibus v. botryoideis, sparsis, ex hypothallo crasso, lato oriundis; floccis simplicibus, cylindricis, 8-10 μ. cr., apicibus attenuatis, variis, rectis v. curvis; spiralibus cenfertis, tenuibus, haud prominulis; sporis globosis, 14-16 μ. diam., plane costato-areolatis, areolis magnis, paucis, inæqualiter polygoniis. 4847

Hab. ad ligna in Tasmania (Archer). — Fungillus 2-3 mm. alt. A *T. chrysosperma* pluribus notis differt.

13. **Trichia Kalbreyeri** Massee Rev. Trich. p. 20, f. 8. — Peridiis confertis, sessilibus, e globoso inæqualibus, pallide flavis, levibus, intus subconcoloribus; elateribus cylindricis, 9-10 μ., cr.; apicibus brevibus, levibus; spiralibus confertis, haud prominulis; sporis globosis, 11-14 μ. diam., plane et inæqualiter areolato-costatis. 4848

Hab. ad ligna et folia viva in Nova Granata (W. Kalbreyer).

14. **Trichia superba** Massee Rev. Trich. p. 21, fig. 6. — Botryoidea, raro simplex; peridiis lato-obovatis, flavidis, intus luteis, stipite communi striato-sulcato, sæpe contorto, concolori, ex hypothallo majusculo oriundo; elateribus simplicibus, cylindricis, 9-11 μ. cr.; apicibus abrupte attenuatis, levibus, curvulis; spiralibus confertis, vix prominulis; sporis globosis 17-20 μ. diam., plane costato-areolatis, areolis polygoniis, costis foveolatis. 4849

Hab. ad muscos et ligna in Nova Zelandia. — Fungillus 3-4 mm. alt.

OLIGONEMA Rost. — Syll. VII. p. 436.

1. **Oligonema Broomei** Massee Rev. Trich. p. 22, fig. 22. — Peridiis sparsis v. aggregatis, depressis, e circulari elongatis, sordide atro-brunneis, intus rufo-ochraceis; elateribus cylindraceis, 3-4 μ. cr., inæqualiter ramosis, fusco-aurantiis, elevato-annulatis, annulis sparsis v. 3-4 approximatis, apice obtuso; sporis grosse verrucosis, globosis, 13-14 μ. diam. 4850

Hab. in corticibus, Warleigh Britanniæ (Broome).

2 **Oligonema minutulum** Massee Rev. Trich. p. 24, fig. 20. — Peridiis sparsis, raro aggregatis, basi angusta sessilibus, citrinis, sordidis; capillitio parcissimo; elateribus simplicibus, brevibus, cylindricis, 5-6 μ. cr., rugulosis, apice obtusis; spiralibus omnino indi- 4851

stinctis; sporis globosis, plane areolato-costatis, 12-14 μ. diam., areolis polygoniis, æqualibus.

Hab. ad ligna in Algeria.

3. **Oligonema furcatum** Buck. Fungi Bristol p. XIII, Grev. XX, p. 38. 4852
— Peridiis sparsis, globosis, nitidis, læte flavis, intus concoloribus; elateribus cylindraceis, simplicibus v. ramosis, extremitatibus incrassatis obtusisque; spiralibus laxis, tenuibus, 3–4 μ. diam.; sporis globosis, minute verrucosis, 10–12 μ. diam.

Hab. in truncis putridis pr. Bristol Britanniæ.

ALWISIA B. et Br. in Journ. Linn. XIV, p. 87, t. II, f. 6 et XV, t. II, f. 1, Massee Rev. Trich. p. 24 (Etym. a cl. mycetum zeylanicorum pictore DE ALWIS) — Peridia in stipitem communem fasciculato-connexa, irregulariter dehiscentia, tunica singula. Capillitium parcum. Elateres ex tunicæ part. infer. oriundi, apicibus liberis attenuatis v. obtusi subinde bifidis, spiralibus spinulisque rudimentariis. Sporæ globosæ.

1. **Alwisia Bombarda** B. et Br. l. c. Massee l. c. f. 19, *Trichia fragilis* 4853
Rost. p. p. Syll. VII, n. 1494 p. p. — Peridiis late fusoideis v. ellipsoideis, longe stipitatis, atro-brunneis, subinde purpureo-tinctis, intus brunneis, stipite composito, concolori, cavo, ex hypothallo majusculo oriundo; elateribus cylindricis, 6–7 μ. cr., hinc inde inflatis, sublevibus; sporis globosis, levibus, 5–6 μ. diam.

Hab. in lignis dejectis in silva Gongolla Ceylon. — Fungillus 2–3 mm. alt.

PROTOTRICHIA Rost. — Syll. VII, p. 437.

1. **Prototrichia flagellifera** Rost. e. p., Massee Rev. Trich. p. 26, f. 23. 4854
Syll. VII, n. 1492 e. p. — Peridiis sessilibus; elateribus basi incrassatis, 7–9 μ. cr., sursum attenuatis et e medio ter dichotomico-ramosis; sporis globosis, 10–13 μ. diam., levibus.

Hab. in truncis Abietum in Britannia et Suecia.

2. **Prototrichia metallica** (B. et Br.) Massee Trich. p. 26, f. 26, *P.* 4855
elegantula Rost., Syll. VII, n. 1491. — Peridiis stipitatis v. subsessilibus, globosis v. lenticularibus, cupreis, nitidis, intus flavis, carneis; elateribus utrinque attenuatis, apice fasciculato-ramosis, ramulis subinde torulosis, apice acutis, 40–60 × 2; spiralibus latis planis; sporis globosis, levibus, 9–11.

Hab. ad ligna in Suecia et Tasmania.

3. **Prototrichia cuprea** Massee Rev. Trich. p. 27, f. 24. — Peridiis 4856

sparsis v. confertis, subglobosis, sessilibus v. brevissime stipitatis, læte cupreis subinde iridescentibus, intus rubro-carneis; floccis inferne brunneis, 6-8 μ. crassis, bis ter dichotomico-ramosis, ramis 150-200 μ. long., apice in corymbum filamentorum incolorium 1-2 μ. cr., desinentibus; spiralibus subconfertis, non prominentibus; sporis globosis, minute verruculosis, 10-13 μ. diam.

Hab. in spinis putridis Scarborough Britanniæ. — Peridia 0,5-1 mm. diam.

HEMIARCYRIA Rost. — Syll. VII, p. 446.

1. **Hemiarcyria fuliginea** Cooke et Mass. Grev. XVI. p. 74. — Floccis 4857
anastomosantibus, spinulosis 3-4 μ. diam., spinulis unilateralibus, spiraliter dispositis; sporis globosis, glabris vix decoloratis 8 μ. diam.; capillitio sporisque (coacervatis) fuligineis.

Hab. in foliis Atherospermi in mont. Wilson N. S. W. Australiæ (Hamilton). — Specimina imperfecta observata.

2. **Hemiarcyria Bucknallii** Mass. Grev. XVIII, pag. 27. — Peridiis 4858
sessilibus basi plus minus lata, hypothallo tenui insidentibus circulari-reniformibus vel mutua pressione subangularibus, cortice tenuissimc, gilvo-ochraceo, mox disparente; massa sporarum aurantia; capillitio valde evoluto; floccis in rete laxum conjunctis 4-5 μ. cr., extremitatibus pluribus liberis annulatis, annulis plerumque confertis, sed hinc inde sparsis et subinde in spiram abeuntibus, spinulas tenues, rectas, 3-4 μ. long., copiosas exserentibus, apicibus liberis inæqualiter inflatis; sporis globosis, pallide flavis, minute asperulis, 7-9 μ. diam.

Hab. ad ligna, Bristol Britanniæ (C. Bucknall) — Sæpius conferta, 0,5-1,5 mm. lat.; affinis *H. Wigandi* sed major et floccis diversis.

3. **Hemiarcyria stipitata** Massee Rev. Trich. p. 30, f. 32. — Peridiis 4859
piriformibus, 2-5 in stipitem communem coalitis v. solitariis, pallide citrinis, opacis, intus ochraceo-fuscis; stipite elongato, æquali, atro-brunneo v. nigricante, longitud. ruguloso; capillitio dense reticulato, apicibus liberis nullis; spiralibus remotis, tenuibus, haud prominentibus; sporis globosis, minute verrucosis, 7-8 μ. diam.

Hab. in stipitibus Palmarum in Java. — Fungillus 3-4 mm. alt.; stipes 2 mm. long., cavus. Affinis *H. clavatæ.*

4. **Hemiarcyria paradoxa** Massee Rev. Trich. p. 32, fig. 35. — Pe- 4860
ridiis sparsis v. aggregatis, sessilibus, hemisphæricis v. subvermiformibus, levibus, nitidulis, sordide ochraceis, intus pallide citrinis;

tunica intus granulis calceis amorphis incrustata; capillitio parco, floccis 4-5 μ. cr. valde contortis, laxe reticulatis, apicibus liberis paucis; spiralibus confertissimis, non prominulis; sporis globosis, 8-10 μ. diam., minute verrucosis.

Hab. ad ligna, Weybridge, Surrey, in Britannia. — Peridia 0,5-1 mm. diam.

5. **Hemiarcyria intorta** A. Lister Journ. of Bot. 1891, p. 268, t. 312, 4861
f. 3. — Peridiis turbinatis, flavidis v. olivaceo-flavidis, nitidis, 0,3-0,7, mm. diam., aggregatis v. sparsis, stipitatis, tunica flava membranacea, ob granula basi incrassata, intus papillosa; stipite purpureo-brunneo 0,4-0,7 mm. long., utrinque incrassatulo, longitrorsum 2-4-sulcato, solido; capillitii floccis 4 μ. cr. contortis, spinulosis vel sublevibus, aurantiis, extremitatibus liberis paucis vix incrassatis; tæniis spiralibus 4-5 plus minus distinctis; sporis flavis, minute verrucosis, 9-10 μ. diam.

Hab. in truncis Ulmi dejectis, Hitchin et Birmingham Britanniæ.

6. **Hemiarcyria Ellisii** Massee Rev. Trich. p. 30, f. 30. — Peridiis fasci- 4862
culatis, 3-7 in communem stipitem contortum connatis v. sessilibus, levibus, atro-castaneis, nitidulis, intus brunneo-aurantiis, demum circumscisso-dehiscentibus; floccis 6-7 μ. cr., raro ramosis, spiralibus, tenuibus, remotiusculis, haud prominulis, acute spinulosis, apicibus brevibus, acutis; sporis globosis, grosse verrucosis, 10-12 μ. diam.

Hab. ad ligna in America fœderata (Ellis in N. A. Fung. n. 1113 sub *H. rubiformi*).

7. **Hemiarcyria chrysospora** A. Lister in Grev. XV, p. 126 et Massee 4863
Rev. Trich. p. 33, fig. 37. — Peridiis lata basi sessilibus, vulgo aggregatis, læte ochraceis, intus flavis, floccis 5 μ. cr., laxe reticulatis, apicibus liberis, conicis, spiralibus 4, confertis, non prominulis, processibus transversis connexis; sporis globosis, plane areolato-costatis, 16 μ. diam.

Hab. in ramis Laricis dejectis, Lyme Regis Britanniæ.

SCHIZOMYCETACEÆ Naeg. — Syll. VIII, pag. 923.

Post editam Schizomycetum enumerationem in Sylloges vol. VIII (1889), plures species v. formæ novæ innotuerunt sed pleræque in operibus clinicis et hinc potius clinice quam botanice tractatæ. Vetitus hæc innumera opera, quibus profanus sum, persequi, fungillos hos abhorrentes relinquo. Qui in his speciatim occupatur, conferat opera clinica et præcipue tractatus bacteriologicos nuperiores.

SPHÆROPSIDEÆ (Lév.) Sacc. — Syll. III, p. 1.

Fam. 1. **Sphærioideæ** Sacc.

Sect. 1. Hyalosporæ.

PHYLLOSTICTA Pers. — Syll. III, p. 3.

I. *In Dicotyledoneis lignosis.*

1. **Phyllosticta mahoniæcola** Pass. in litt. Brun. in Rev. Myc. 1886, p. 140. — Maculis amplis, brunneis, non limitatis, subinde totum folium occupantibus; peritheciis epiphyllis, sparsis, epidermide supra perithecium decolorata, circum circa brunnea tectis, demum vix erumpentibus, perforatis; sporulis oblongis, hyalinis, 7,5–8 ≃ 2,5, biguttulatis. 4864

Hab. in foliis languescentibus Mahoniæ japonicæ, Préguillac Galliæ (Brunaud).

2. **Phyllosticta asiatica** Cooke in Grevillea XIII, p. 91. — Maculis orbicularibus vel irregularibus, fuscis, margine purpureo-atro-brunneo cinctis; peritheciis paucis, in utraque pagina foliorum insidentibus, gregariis, minutis, atris, punctiformibus; sporulis minutis, hyalinis, 4 ≃ 1,5; basidiis longioribus. 4865

Hab. in foliis languidis Berberidis asiaticæ, Kew London Britanniæ.

3. **Phyllosticta circumvallata** Winter in Jour. of Myc. 1885. — Maculis rotundato-angustatis, griseis, linea fusco-atra, elevata circumscriptis, 5 mm. diam.; peritheciis sparsis, plerumque epiphyl- 4866

lis, lenticularibus, atris, membranaceis, 100-120 μ. diam.; sporulis ellipticis, utrinque acuminatis, 7-9 = 3½-4, nucleis 2, magnis præditis, hyalinis, continuis.

Hab. ad folia languida Liriodendri Tulipiferæ, Missouri Amer. bor.

4. **Phyllosticta Tulipiferæ** Passer. Diagn. F. N. III, n. 49. — Maculis subdiscoideis, exaridis, fusco-marginatis, mox laceris; peritheciis epiphyllis subgregariis minutissimis, semiimmersis; sporulis oblongis, continuis, hyalinis, 10 = 3-4. 4867

Hab. in foliis vivis Liriodendri Tulipiferæ in horto botanico Parma Ital. bor. — A *P. Liriodendri* sporularum forma et magnitudine differt.

5. **Phyllosticta camelliæcola** Brun. Miscell. mycol. p. 13. — Maculis magnis, suborbicularibus vel oblongis, brunneis, dein griseis, anguste brunneo-marginatis; peritheciis epiphyllis, magnis, tectis, dein ostiolo erumpentibus, brunneo-nigris; sporulis hyalinis; 5-6 = 2-3. 4868

Hab. in foliis languidis Camelliæ japonicæ, Saintes Rochefort Galliæ.

6. **Phyllosticta Winterii** Speg. F. Fueg. n. 375. — Maculis orbicularibus expansis majusculis 1-3 cm. diam., sæpius concentrice rugulosis subdeterminatis amphigenis, superne e nigricante cinerescentibus inferne, glaucescenti-roseis v. cinereis; peritheciis amphigenis sparsis immersis vix prominulis, olivaceis, minutis 50-60 μ. diam., membranaceis, ostiolo minutissimo impresso perforatis, contextu parenchymatico fusco donatis; sporulis elliptico-cylindraceis utrinque obtuse rotundatis 4,5 × 1,5-2 et sæpe 1-guttulatis, hyalinis. 4869

Hab. ad folia languida Drymidis Winterii in Staten island Fuegiæ.

7. **Phyllosticta magellanica** Speg. F. Fueg. n. 371. — Maculis nullis; peritheciis hypophyllis, laxe gregariis, immerso-prominulis, epidermide velatis e globoso lenticularibus 120-150 μ. d., atris, coriacellis, glabris, ostiolo non v. vix papillulato, contextu densissime parenchymatico sæpe subindistincto; sporulis elliptico-cylindraceis utrinque plus minusve acutato-rotundatis 4-6 × 1,5-2,5 eguttulatis hyalinis. 4870

Hab. in foliis dejectis Ribis magellanicæ in Picton island Fuegiæ.

8. **Phyllosticta Ribis** Speg. F. Fueg. n. 372. — Maculis amphigenis, irregulariter rotundatis, parvulis 2-5 mm. diam., determinatis, sordide rufescentibus; peritheciis epiphyllis, laxissime gregariis paucis, 4871

innato-prominulis, globoso-conoideis 80-90 μ. diam., atris tenuimembranaceis, ostiolo minutissimo impresso pertusis, contextu majuscule parenchymatico donatis; sporulis elliptico-subglobosis, utrinque obtusis 3–4,5 ≃ 2–2,5, eguttulatis, hyalinis.

Hab. ad folia languida Ribis magellanici in Staten island et prope Ushuvaia Fuegiæ.

9. **Phyllosticta lenticularis** Passer. Diagn. F. N. III, n. 51. — Peritheciis epiphyllis, lenticularibus, crebre sparsis atris, opacis, nucleo albo in maculis irregularibus amplis albo-exaridis; sporulis oblongo-ellipticis, rectis, biguttulatis, hyalinis, 12,5–15 ≃ 5, basidiis crassiusculis, subæquilongis fultis. 4872

Hab. in foliis vivis Citri Limonum, Parma Ital. bor.

10. **Phyllosticta deliciosa** Passer. Diagn. F. N. III, n. 52. — Peritheciis epiphyllis, punctiformibus, atris in maculis exiguis albo-exaridis, margine elevato, castaneo-fulvo nitido cinctis; sporulis minimis, cylindricis, integris, hyalinis, 4 ≃ 1. 4873

Hab. in foliis vivis Citri deliciosæ, in horto botanico, Parma Ital. bor.

11. **Phyllosticta adusta** Ell. et Mart. in Journ. of Myc. 1886, p. 130. — Maculis amphigenis, pallidis vel griseis, margine definito, subtili, luteo-brunneo cinctis, sæpe marginalibus, 1–4 cm. latis vel marginem foliorum longe occupantibus; peritheciis amphigenis, atris, subglobosis, laxe aggregatis, subinde confluentibus, epidermide mox rupta tectis, 175-240 μ. diam.; sporulis hyalinis, oblongis vel subcylindraceis, sæpe bi- vel trinucleatis, 10-16 ≃ 4-7; basidiis 7-10 μ. longis. 4874

Hab. in foliis Citri Aurantii gelu tactis Green Cove Springs, Florida Amer. bor. — Sporulis crassioribus a *P. marginali* distinguenda.

12. **Phyllosticta Deutziæ** Ell. et Ev. Journ. Myc. 1889, pag. 146. — Maculis amphigenis, dilute brunneis v. albidis, rotundis, 1-2 mm. diam., in utraque folii pagina elevato-marginatis, peritheciis lenticularibus, nigris, plerumque epiphyllis, subsuperficialibus, 1/5 mm. diam.; sporulis subellipsoideis, fuscis, 4-5 ≃ 3. 4875

Hab. in foliis Deutziæ, Amer. bor.

13. **Phyllosticta coronaria** Passer. Diagn. F. N. III, n. 57. — Maculis plus minus amplis, subdiscoideis, discretis, raro pluribus confluentibus, halone fusco circumdatis; peritheciis epiphyllis, punctiformibus sparsis, primo tectis, dein epidermide perforata cinctis, atris, subglobosis; sporidiis oblongo-ellipticis, integris, hyalinis, ad 4876

apices nucleolatis, endoplasmate opaco, medio leniter constrictis, 7-7,5 = 2,5-3.

Hab. in foliis vivis Philadelphi coronarii, Vigheffio pr. Parma Ital. bor. — A *Ph. vulgari* differt peritheciis aliquanto minoribus non superficialibus et sporulis multo brevioribus.

14. **Phyllosticta Spinosæ** E. et K. Journ. Myc. 1887, p. 102. — Maculis amphigenis, rotundis, parvis, 1-3 mm. lat., supra albis, subtus rubiginoso-albis, plerumque purpureo-marginatis; peritheciis plerumque centro maculæ insidentibus, punctiformibus, nigris, subprominulis; sporulis oblongis, 2-guttatis, 12-14 = 4-5. 4877

Hab. in foliis Sidæ spinosæ, Manhattan, Kansas Amer. bor. (W. T. Swingle). — Maculæ subtus hyphis cæspitosis, brunneis, sterilibus, circ. 40 = 3, plerumque incurvis tectæ.

15. **Phyllosticta sidæcola** Cooke in Grevillea XIV, pag. 39. — Epiphylla; maculis brunneis, indistinctis, demum centro pallidioribus, irregularibus vel confluentibus; peritheciis punctiformibus, membranaceis, brunneis, minutis; sporulis ellipsoideis, enucleatis, hyalinis, 4 = 2. 4878

Hab. in foliis languidis Sidæ Napææ, Kew Britanniæ.

16. **Phyllosticta hibiscina** Ell. et Ev. Journ. of Myc. 1888, p. 9. — Maculis amphigenis, griseis, inæqualibus, latis, 0,5-1,5 cm. diam. deciduis; peritheciis majusculis, lenticularibus, nigris, utrinque prominulis; sporulis oblongo-ellipsoideis, hyalinis, 2-guttatis, 6-8 = 1,5-2. 4879

Hab. in foliis vivis Hibisci mutabilis, Louisiana Am. bor. (Langlois). — A *Ph. syriaca* satis diversa.

17. **Phyllosticta Hibisci** Peck 42 Rep. p. 29. — Maculis suborbicularibus, albidis vel rubenti-griseis, anguste brunneo-marginatis, 1-8 mm. lat.; peritheciis minutis, 100 μ. lat., epiphyllis, nigris; sporulis oblongis, 7,5-10 = 3-4, sæpius 1-2-guttatis; basidiis simplicibus v. ramosis, 10-20 μ. long. 4880

Hab. in foliis vivis Hibisci moscheuti, Eastport et Patehogue Amer. bor.

18. **Phyllosticta Hardenbergiæ** Cooke et Mass. Grev. XVI, p, 3. — Maculis amphigenis, variis, fuscis; peritheciis plerumque hypophyllis, minutissimis, gregariis, punctiformibus, 60-80 μ. diam, atris; sporulis minutis, subglobosis, hyalinis, 2-3 μ. diam. 4881

Hab. in foliis vivis Hardenbergiæ Box Hill, V. Australiæ (F. Campbell).

19. **Phyllosticta advena** Passer. Diagn. F. N. III, n. 54. — Maculis 4882

discoideis, parvulis v. irregularibus, plus minus amplis, primo luteis, dein fuscis, exaridis, haud marginatis; perithecis minimis, lente vix perspicuis; sporulis ovatis vel oblongis, rectis vel leniter curvis, integris, hyalinis, 8-12 ≃ 3.

Hab. in foliis languidis Robiniæ Pseudacaciæ, Gajone pr. Parma Ital. bor.

20. **Phyllosticta Pseudacaciæ** Pass. Fung. Gall. nov. in Journ. d'Hist. nat. 1885, n. 4, p. 54. — Maculis parvis, subrotundis, fuscis, arescendo fusco-cinereis; perithecis minutis, nigris; sporulis minutissimis, bacteriformibus. 4883

Hab. in foliis vivis Robiniæ Pseudacaciæ prope Saintes (Charente-Inférieure) in Gallia (Brunaud).

21. **Phyllosticta coniothyrioides** Sacc. F. Ard. n. 146, *Ascochyta Cytisi* Lib. Crypt. II, n. 156 (1832). — Epiphylla; maculis suborbiculatis cinereis, ambitu umbrinis; perithecis globulosis, fuscis, poro apertis, cirris rubescentibus; sporulis elliptico-oblongis, 5 ≃ 3, demum subfuligineis. 4884

Hab. in foliis Cytisi Laburni in Arduennis.

22. **Phyllosticta Cytisorum** Pass. in litt. Brunaud in Rev. Myc. 1886, p. 139. — Perithecis sparsis in maculis aridis, irregularibus, epiphyllis, subglobosis, atris; sporulis oblongo-ellipticis, hyalinis, crassiuscule binucleatis, 5 ≃ 2,5; basidiis multo longioribus. 4885

Hab. in foliis Cytisi Laburni, Préguillac Galliæ (Brunaud).

23. **Phyllosticta Phyllodiorum** Sacc. in Hedw. 1890, p. 156. — Maculis subcircularibus, amphigenis, albidis, fusco-cinctis; perithecis punctiformibus, pertusis, 90-100 μ. diam., contextu fuligineo; sporulis perexiguis botuliformibus, hyalinis, 4-5 ≃ 1. 4886

Hab. in phyllodiis Acaciæ, Caromby Australiæ (Tepper).

24. **Phyllosticta candicans** Passer. Diagn. F. N. III, n. 55. — Maculis irregularibus exaridis candicantibus, margine fusco-rubiginoso limitatis; perithecis mesophyllo immersis, punctiformibus atris, utrinque perspicuis; sporulis ellipticis, guttulatis, hyalinis, 5-7,5 ≃ 2,5-3,7. 4887

Hab. in foliis Bauhiniæ aculeatæ in horto botanico Parma Ital. bor. — A *Ph. cytisella*, cui quodammodo accedit, magnitudine sporularum differt, et a *Ph. Bauhiniæ* maculis candicantibus et sporulis longioribus diversa.

25. **Phyllosticta Sophoræ** Ell. et Ev. Proc. Acad. Phil. 1891, p. 77. — Maculis amphigenis, minutis, 1 mm. diam., rotundis, concavis, subnigris, elevato-marginatis, dein rubenti-brunneis; perithecis in- 4888

nato-erumpentibus plerumque singulis in quaque macula, globosis, 100-150 μ. diam.; sporulis perexiguis, 1,5-2,5 ≃ 0,7.

Hab. in foliis vivis Sophoræ speciosæ, S. Antonio Texas Amer. bor. (Egeling).

26. **Phyllosticta sordidula** Speg. Guar. I, p. 142. — Maculis nullis; peritheciis epidermide cinerescenti tectis, sparsis, lenticularibus, 80-100 μ. diam., dein subcollabentibus, atris, minute pertuso-papillatis; sporulis ellipsoideo-ovoideis, 3-3,5 ≃ 1,5-2, hyalinis, biguttulatis. 4889

Hab. in siliquis Cassiæ prope Guárapi Brasiliæ.

27. **Phyllosticta Parkinsoniæ** Ell. et Ev. Proc. Acad. Phil. 1891, p. 77. — Maculis amphigenis, orbicularibus, minutis, 1 mm. diam., subnigris, elevatulo-marginatis, dein rubenti-brunneis; peritheciis innatis vel prominulis, depresso-globosis, 80-100 μ. diam.; sporulis ellipsoideo-oblongis, hyalinis, 4-6 ≃ 2. 4890

Hab. in foliis vivis Parkinsoniæ aculeatæ, S. Antonio Texas Amer. bor. (Egeling).

28. **Phyllosticta Borszczowii** Thüm. M. U. n. 1894. — Maculis obsoletis vel arescendo decoloratis; peritheciis dense gregariis hypophyllis, raro amphigenis punctiformibus, prominulis, atro-nitidis; sporulis minutissimis, eguttulatis, ellipsoideis, utrinque rotundatis, hyalinis, 3 ≃ 1,5. 4891

Hab. in foliis vivis Caraganæ arborescentis, Maidaschi Sibiriæ (N. Martianoff).

29. **Phyllosticta Araliæ** Sacc. et Berl. in Rev. Myc. 1885. — Epiphylla; maculis flavo-cinereis, latis, linea ochracea cinctis; peritheciis minutis, sparsis vel subgregariis, tectis, ostiolo epidermidem perforante demum emergentibus, nigris; sporulis ovoideis, 4-5 ≃ 1½-2, pallidissime viridulis. 4892

Hab. in pag. superiore foliorum viventium Araliæ in Algeria.

30. **Phyllosticta Hydrangeæ** Ell. et Ev. Journ. Myc. 1889, p. 145. — Maculis 1-1,5 cm. vel ultra diam., rubiginoso-brunneis, anguste elevato-marginatis, primo purpureo-tinctis; peritheciis epiphyllis, lenticularibus, supra pertusis, 100-115 μ. diam.; sporulis oblongis, 2-3-guttatis, hyalinis, 10-12 ≃ 2,5-3,5. 4893

Hab. in foliis Hydrangeæ cultæ, New Jersey Amer. bor.

31. **Phyllosticta thallina** Sacc. Bomm. et Rouss. Fl. Myc. Belg. II, p. 25. — Maculis albis, nitidulis, zona purpurea marginatis, inæqualiter circularibus, confluentibus; peritheciis crebris, tectis, exiguis, 90-170 μ.-diam.; sporulis ellipsoideis, continuis, hyalinis, 6 ≃ 3. 1894

Hab. in ramulis Corni sanguineæ, Groenendael Belgii. — Habitus fere thalli albi lichenosi.

32. **Phyllosticta indica** Roum. et Karst. Rev. Myc. 1890. — Perithe- 4895
ciis gregariis, epidermide dein fissa tectis, subsphæroideis, atratis, contextu parenchymatico, fuligineo, pertusis, macula ampla, vaga arescendo dealbata, fusco cincta insidentibus, circiter 75 μ. diam.; sporulis oblongatis, continuis, obtusis, rectis, hyalinis, 3 ≈ 1.

Hab. in pagina superiore foliorum languescentium Aucubæ Spini? in Tonkin (B. Balansa). — A *Phyllosticta Aucubæ* et *Ph. aucubæcola* admodum differens.

33. **Phyllosticta Æsculi** Ell. et Mart. in Journ. of Myc. 1886, p. 130. 4896
— Hypophylla, in maculis latis, indefinite limitatis; peritheciis punctiformibus, minutis, 40-50 μ. diam., sparsis, brunneis; sporulis oblongo-cylindraceis, hyalinis, 3-4 ≈ 1.

Hab. in foliis vivis Æsculi glabræ, Missouri Amer. bor. — A *P. sphæropsidea* sporulis valde minoribus differt.

34. **Phyllosticta sphæropsidea** Ell. et Ev. in Bull. Torr. bot. Club. 4897
1883, p. 97. — Maculis rufo-brunneis, margine pallide luteo cinctis, sparsis, 1-2 cm. diam., vel confluentibus et latioribus; peritheciis sparsis, punctiformibus, immersis, supra perforatis, in pagina sup. foliorum prominulis, sed epidermide tectis; sporulis globosis vel late ellipsoideis, hyalinis, minute guttulatis crasseque 1-2-nucleatis, 12-15,5 ≈ 8-10, in basidiis *Sphæropsidum* similibus insertis.

Hab. in foliis vivis Æsculi Hippocastani, Vineland Amer. bor. (D. C. Bidwel).

35. **Phyllosticta paviæcola** Brun. Champ. Saint 1887, p. 429. — Ma- 4898
culis oblongis vel suborbicularibus, sæpe confluentibus, brunneo-nigris, dein cinerescentibus, demum expallentibus brunneo-cinctis; peritheciis epiphyllis, exiguis, nigris; sporulis oblongis vel ovoideo-oblongis, 5-7 ≈ 2-2,5 non guttulatis, hyalinis.

Hab. in foliis Paviæ macrostachyæ in horto botanico Rochefort Galliæ.

36. **Phyllosticta Terebinthi** Passer. Diagn. F. N. III, n. 53. — Macu- 4899
lis amplis irregularibus, exaridis, ferrugineo-griseis, mox laceris; peritheciis epiphyllis sparsis punctiformibus, ostiolo perforato, membranaceis, contextu minute celluloso rufidulo; sporulis minutis ovalibus, hyalinis, 2,5-3 ≈ 1,5-2, ad apices obscure nucleolatis.

Hab. in foliis languidis Pistaciæ Terebinthi in horto botanico Parma Ital. bor.

37. **Phyllosticta spermoides** Peck 40 Rep. p. 58. — Maculis subor- 4900
bicularibus, brunneis v. cinereis, margine brunneo donatis v. subinde confluentibus; peritheciis minutis, 35-62 μ. diam., numerosis, hypophyllis, nigrescentibus; sporulis minutis, cylindraceis, 5 μ. long.

Hab. in foliis vivis Vitis ripariæ, Gansevoort Amer. bor.

38. **Phyllosticta microspila** Passer. Diagn. F. V. IV, p. 8. — Macu- 4901
lis irregularibus, parvulis, fuscis, brunneo-limitatis; peritheciis epiphyllis, atris, sparsis; sporulis oblongis, ad apices attenuatis, hyalinis, 10 × 3.

Hab. in foliis Vitis viniferæ silvestris in silvis Collecchio pr. Parma Ital. bor. — *Ph. viticola*, quamvis sporularum magnitudine proxima, differt maculis amplis interdum confluentibus, peritheciis amphigenis vel hypophyllis et sporulis ad apices non attenuatis.

39. **Phyllosticta Bizzozeriana** C. Mass. Contr. Mic. Ver. p. 79, t. I, 4902
f. II. — Peritheciis punctiformibus, nigris, hypophyllis vel subamphigenis, globoso-conicis, prominulis, poro pertusis, erumpentibus, 50-80 μ., in maculis parvis, irregularibus, exaridis dense aggregatis; sporulis perexiguis, hyalinis, breviter bacillaribus, continuis, utrinque obtusis, 2,5-3,5 × 1,5.

Hab. in foliis Vitis viniferæ, Caravena prope Tregnago agri Veronensis. — A *Ph. viticola* et *Ph. Vitis* satis diversa.

40. **Phyllosticta neurospilea** Sacc. et Berl. Misc. Myc. II, n. 37. — 4903
Maculis epiphyllis, nervis exacte limitatis, hinc angulosis, rufo-ochraceis; peritheciis globoso-depressis, parcissimis, innato-prominulis, punctiformibus; sporulis ovato-oblongis, 8-10 × 5-6, intus granulosis, hyalinis; basidiis brevibus e basi stromatica, densiuscula oriundis.

Hab. in foliis Vitis antarcticæ, Logan Australiæ.

41. **Phyllosticta Monspessulani** Pass. in Brun. Champ. Saint. V, p. 4. 4904
— Maculis minutis, griseis dein albis, angulosis; peritheciis parcis, punctiformibus, nigris; sporulis fusoideo-bacillaribus, hyalinis, continuis, 8-10 × 2,5.

Hab. in foliis Aceris monspessulani, Rochefort Galliæ.

42. **Phyllosticta minutissima** Ell. et Ev. Proc. Ac. Phil. 1891, p. 76. 4905
— Maculis amphigenis irregularibus, suborbicularibus, 4-9 mm. diam., supra rubenti-brunneis, dilutius marginatis, infra pallidioribus; peritheciis hypophyllis, minutis, 75-85 μ. diam., globosis,

subprominulis, copiosis; sporulis minutissimis, subellipticis, hyalinis, 1,5-2 ≃ 0,5.

Hab. in foliis vivis Aceris glabri, Nebraska Amer. bor. (H. J. Webber).

43. **Phyllosticta Saccharini** Ell. et Mart. in Journ. of Myc. 1886, pag. 130. — Maculis amphigenis, definitis, parvis, 1-2 mm. diam., albis, margine rubiginoso-brunneo, irregulariter sparsis; peritheciis epiphyllis, in pagina superiore conspicuis, lenticularibus, atris, 100-120 μ. diam.; sporulis oblongis, 3,5-4,5 ≃ 1-1,3, hyalinis. 4906

Hab. in foliis vivis Aceris saccharini, Missouri Americæ borealis.

44. **Phyllosticta campestris** Pass. in litt. Brun. in Rev. Myc. 1886, pag. 139. — Maculis parvis, angulosis, brunneis, centro pallidioribus, subinde folium ad marginem decolorantibus; peritheciis minutis, punctiformibus, parcis, nigris; sporulis minutis, oblongis, hyalinis, enucleatis, 2 ≃ 1. 4907

Hab. in foliis Aceris campestris prope Saintes Galliæ (Brunaud).

45. **Phyllosticta rubra** Peck in Thirty-fifth Rep. St. Mus. Bot. 1884, p. 138. — Maculis parvis, angulatis vel irregularibus, quandoque confluentibus, rubris; peritheciis 1-5 in quaque macula, epiphyllis, minutis, nigris; sporulis late ellipticis vel subglobosis, 8 ≃ 6, hyalinis. 4908

Hab. in foliis vivis Cratægi tomentosæ, Albany Americæ borealis.

46. **Phyllosticta Treleasei** Berl. et Vogl. Add. Syll. n. 4214, *Phyllosticta* sp. Trel. Paras. Fungi Visc. pag. 17. — Maculis rotundatis vel oblongis, 3-8 mm. diam., rufo-brunneis; peritheciis minutis, atris; sporulis ellipsoideis, hyalinis, 7-8 ≃ 2-4, unicellularibus. 4909

Hab. in foliis Pruni serotinæ, Madison Amer. bor. — Verisimiliter a *P. serotina* non distinguenda.

47. **Phyllosticta Passerinii** Berl. et Vogl. Add. Syll. n. 4215, *Phyllosticta Mahaleb* Pass. Fung. Gall. novi, in Jour. d'Hist. nat. 1885, n. 4, pag. 16. — Maculis subrotundis, minutis, fuscis, arescendo ochraceis, margine tenui elevato cinctis; peritheciis paucis, hinc inde congregatis, globoso-lenticularibus, pertusis; sporulis bacillaribus, minimis, $2^1/_2 \simeq {}^3/_4$, hyalinis. 4910

Hab. in foliis languidis Pruni Mahaleb in Gallia (Brunaud). — «Non *Ph. Mahaleb* Thüm. — Sacc. Syll. III, p. 5».

48. **Phyllosticta vindobonensis** Thuem. Pilze d. Aprik. p. 2. — Ma- 4911

culis magnis plus minusve orbicularibus, sordide griseo-fuscis, arescendo suberosis; peritheciis numerosis, punctiformibus, atris, gregariis; sporulis numerosissimis, breve ellipsoideis vel subcylindraceis, utrinque rotundatis, simplicibus, eguttulatis, homogeneis, nubiloso-hyalinis vel dilute fumigatis, 3,5–5 ≃ 1,5–2,5.

Hab. in fructibus Armeniacæ, Wien Austriæ.

49. **Phyllosticta Rosarum** Pass. Erb. critt. it. II, n. 1092. — Maculis parvulis discoideis, atro-sanguineis, centro albicantibus ibique perithecia punctiformia atra aggregata foventibus; sporulis ellipticis, simplicibus, hyalinis, 5 ≃ 2,5 μ. 4912

Hab. in foliis Rosarum cultarum, Vigheffio prope Parma Ital. bor.

50. **Phyllosticta Pallor** (Berk.) Oud. Contr. Myc. Pays-bas XIII, pag. 34, t. IX, f. 21. — Ita nuncupanda est, teste Oud. loc. cit. *Ascochyta Pallor* Berk. — Syll. III, p. 399 — nam sporulæ continuæ, granulosæ, subinde curvulæ, hyalinæ, 14-18 ≃ 4-5. Nascitur quoque in sarmentis Rubi idæi in Nederlandia.

51. **Phyllosticta arbutifolia** Ell. et Mart. in Journ. of Myc. 1886, pag. 129. — Maculis epiphyllis, minutis, 1 mm. vel minus, diam., albis, in pagina inferiore foliorum; peritheciis sæpe singulis in centro cujusdam maculæ, subastomis, emergentibus, atris, 70-80 μ. diam.; sporulis subglobosis, hyalinis, 6-8 μ. long. 4913

Hab. in foliis vivis Piri arbutifoliæ, Newfield Amer. bor.

52. **Phyllosticta piriseda** Passer. Diagn. F. N. IV, p. 9. — Peritheciis epiphyllis, lenticularibus, prominulis in maculis parvulis discoideis albicantibus sæpe circinatis; sporulis ovoideo-oblongis, hyalinis, 2,5–3 ≃ 1,5. 4914

Hab. in foliis languidis Piri communis, socia *Asteromella bacillari*, Parma. — A *Ph. pirina* differt sporulis brevioribus angustioribusque, et ob maculas evidentes, perithecia sæpius ordinata sporulasque paullo grandiores, a *Ph. piricola* pariter diversa.

53. **Phyllosticta Mali** Prillieux et Delacroix, Bull. Soc. Myc. Fr. 1890, p. 180, f. III, planche XX. — Maculis parvis, elongatis vel subcircularibus, primum brunneo-ochraceis, demum sordide griseis, margine fusco, leniter incrassato; peritheciis parcis, subapplanatis, poro pertusis, 130–170 ≃ 100-120; sporulis ovoideis, 6,5–8,5 ≃ 4-4,5 μ. 4915

Hab. in pagina superiore foliorum Mali communis, Lorient Galliæ.

54. **Phyllosticta Briardi** Sacc. *Phyllosticta Mali* Briard Suppl. p. 79, 4916

nec Prill. — Maculis variis, brunneis vel ochraceis, margine concolore, utrinque visibilibus; peritheciis epiphyllis punctiformibus, innatis, nigris, 80-100 μ. diam., hinc inde cæspitoso-aggregatis; sporulis cylindraceis obtusis, 4-5 ≃ 1,5-2, hyalinis.

Hab. in foliis viventibus Mali communis, Aube Galliæ.

55. **Phyllosticta variabilis** Peck in Thirty-fifth Rep. St. Mus. Bot. 1884, p. 138. — Maculis parvis vel majusculis, suborbicularibus vel irregularibus, brunneis aut purpureo-brunneis, centro primum areolis aridis, albis punctatis, denique undique aridis; peritheciis minutis, epiphyllis, nigris; sporulis oblongo-ellipsoideis, 5-7 ≃ 2,5-3. 4917

Hab. in foliis vivis Rubi odorati, Albany Amer. bor.

56. **Phyllosticta bicolor** Peck 43 Rep. p. 26. — Maculis majusculis, 4-12 mm. lat., irregularibus, primo brunneis, dein centro albidis, late brunneo-cinctis, subtus brunneis; peritheciis epiphyllis, centro maculæ insidentibus, minutis 100-125 μ. lat., nigris; sporulis minutis, oblongis, hyalinis, 5-6,5 ≃ 2-2,5. 4918

Hab. in foliis vivis Rubi odorati, Whitehall Amer. bor.

57. **Phyllosticta Crenatæ** Brun. Miscell. mycol. p. 14. — Maculis supra nigricantibus vel brunneo-nigris, subtus brunneo-griseis, magnitudine et forma variis, sæpius oblongis v. angulatis; peritheciis hypophyllis, sparsis, punctiformibus, erumpentibus, brunneis; sporulis ovoideis, continuis vel interdum 2-guttatis, 4-5 ≃ 2,5-3. hyalinis. 4919

Hab. in foliis Spirææ crenatæ, Saintes Galliæ.

58. **Phyllosticta Metrosideri** Brun. Miscell. mycol. p. 14. — Maculis orbicularibus, pallide griseo-brunneis, margine rubro-brunneo cinctis; peritheciis globosis, minutissimis, parum numerosis, nigris; sporulis ovoideo-oblongis, hyalinis, 5 ≃ 2. 4920

Hab. in foliis Metrosideri villosæ, in insul. Tahiti (Gaston Brunaud).

59. **Phyllosticta Globuli** Passer. Diagn. F. N. III, n. 56. — Peritheciis hypophyllis, dense gregariis, in maculis parvulis amphigenis subdiscoideis, umbrinis; sporulis bacillari-fusiformibus, integris, hyalinis, 10-12,5 ≃ 1,5-1,8. 4921

Hab. in foliis dejectis Eucalypti Globuli in horto botanico, Parma Ital. bor.

60. **Phyllosticta myrticola** Speg. F. Puigg. n. 409. — Maculis amphigenis, orbicularibus, candidis, determinatis, 2-5 mm. diam., angustissime vinoso-marginatis; peritheciis minutis, membranaceis, 4922

ostiolatis, 80-90 μ. diam.; sporulis ellipsoideo-ovoideis, hyalinis, 3-5 ≃ 1-1,5, biguttulatis.

Hab. ad folia viva Eugeniæ speciei cujusdam in dumetis pr. Apiahy Brasiliæ.

61. **Phyllosticta Mayteni** Speg. F. Fueg. n. 370. — Maculis arescenti-albis, amphigenis determinatis, linea stricta rufescente cinctis; peritheciis innato-immersis, lenticularibus, majusculis, 200-250 μ. diam., coriacellis, ostiolo vix papillulato, contextu densissime subimperspicueque parenchymatico fusco; sporulis ellipticis vel ovoideis, utrinque acutiusculis, 6-9 ≃ 2-3, ac sæpe 1-guttulatis, sterigmatibus breviusculis, 6-10 ≃ 1,5-2, suffultis, hyalinis. 4923

Hab. ad folia languida Mayteni magellanicæ in silvis pr. Shammacus et in Picton island Fuegiæ. — Perithecia in parte infera tenuissime membranacea, subevanida, an dimidiata?. Sporulæ per ætatem sæpe medio 1-septulatæ.

62. **Phyllosticta Cyrillæ** Ell. et Mart. in Journ. of Myc. 1886, p. 130. — Maculis latis, marginis apicem basimque foliorum occupantibus, primo rufo-brunneis dein griseo-brunneis; peritheciis atris, subglobosis, pertusis, valde immersis, dein erumpentibus, sæpe epiphyllis, aggregatis, 110-140 μ. diam.; sporulis hyalinis, ovoideis, granulosis, 8-10 ≃ 5-7. 4924

Hab. in foliis vivis Cyrillæ racemifloræ, Green Cove Springs, Florida Amer. bor.

63. **Phyllosticta Camusiana** Sacc. in Atti Soc. Nat. Mod. 1888, p. 109, *Ph. Paliuri* P. Brun. Champ. nouv. VI, p. 2. — Maculis amphigenis, minutis, valde ramosis, gregariis (topographiam fere imitantibus!), pallide ochraceis, mox dealbatis, anguste rufo-marginatis; peritheciis globoso-lenticularibus, epidermide velatis, nigricantibus, poro pertusis; sporulis ellipsoideis, dilute olivaceis, 6-8 ≃ 3-4. 4925

Hab. in foliis vivis Paliuri australis, Modena Ital. bor. et Rochefort Galliæ. — Differt ab affini *Ph. Zizyphi* sporulis leniter coloratis, maculis candidis etc.

64. **Phyllosticta Paliuri** (Lév.) Cooke Grev. XIII, pag. 45, *Dothidea* Lév. Demid. II, p. 107, t. V, f. 6. — Hypophylla, atra, maculiformis; peritheciis minutissimis, confertis, albo-farctis, stromate tenui impositis; sporulis ovato-linearibus, pellucidis, curvatis, simplicibus, obtusis, 6 ≃ 2. 4926

Hab. in foliis Paliuri australis, Yalta in Tauria.

65. **Phyllosticta Alaterni** Pass. in litt. Brun. in Rev. Myc. 1886, p. 139. — Maculis orbicularibus, albo-griseis, amphigenis, nigro-brunneo- 4927

marginatis; peritheciis sparsis, paucis, parvis, globulosis, atris; sporulis ovoideis, hyalinis, eguttulatis, 5 ≃ 3,5-4.

Hab. in foliis Rhamni Alaterni, Saintes Galliæ (Brunaud).

66. **Phyllosticta advena** Passer. Diagn. F. N. V. n. 24. — Maculis 4928
ovalibus aut vagis, amphigenis, superne albo-cinereis, fusco-cinctis, subtus fuscis; peritheciis epiphyllis punctiformibus sparsis v. raro subcircinantibus, atris; sporulis ovalibus, integris, hyalinis, 3,5-4 ≃ 2,5.

Hab. in foliis languidis Rhamni corymbosi (?) (in hortis nomine *Guevinæ Avellanæ* culti) San Remo Ital. bor. (F. Panizzi).

67. **Phyllosticta sardoa** Passer. Diagn. F. N. IV, p. 8. — Maculis 4929
amplis, exaridis candicantibus, fusco-cinctis; peritheciis illis *Pyrenophoræ coronatæ* var. *Evonymi* similibus, amphigenis; sporulis elongato-fusiformibus, integris, hyalinis, endoplasmate granuloso, 18-22,5 ≃ 5-7, basidiis subæquilongis fultis.

Hab. in foliis languidis Evonymi japonici, Sassari Sardiniæ et Livorno.

68. **Phyllosticta Prini** Peck 43 Rep. p. 26. — Maculis parvis, sub- 4930
orbicularibus, supra albis v. griseolis, subtus brunneolis; peritheciis parvis, 175 μ. lat., epiphyllis, depressis, nigris; sporulis ellipsoideis v. oblongis, 7,5-12,5 ≃ 4.

Hab. in foliis Ilicis (Prini) verticillatæ, Catskill mountains Americæ borealis.

69. **Phyllosticta concomitans** Ell. et Ev. Journ. of Myc. 1888, p. 9. 4931
— Maculis amphigenis, 2-3 mm. diam., margine elevato purpureo cinctis zonaque; peritheciis minutis sparsis, immersis, pertusis, basi subtus leniter prominulis; sporulis oblongis, hyalinis, 5-7 ≃ 1,5-2.

Hab. in foliis vivis Ilicis deciduæ, Louisiana Amer. bor. (Langlois).

70. **Phyllosticta terminalis** Ell. et M. Am. Nat. 1884, p. 70. — Ma- 4932
culis sæpius apicem vel quandoque marginem foliorum occupantibus, linea purpureo-nigra circumscriptis; peritheciis globosis, parenchymate immersis, epidermidem nigrescentem vix elevantibus; sporulis oblongis, 3-4 ≃ 1; basidiis cylindraceis, sporulas longitudine æquantibus.

Hab. in foliis Ilicis Dahoonis, New Florida Amer. bor.

71. **Phyllosticta Monetiæ** Speg. Guar. I, p. 142. — Maculis amphi- 4933
genis, orbicularibus, pallidis, obsolete marginatis; peritheciis lenticularibus tectis, 100-150 μ. diam., sparsis, atris, pertusis, demum col-

labentibus, contextu olivaceo; sporulis ellipsoideis, 3,5-4 = 1,5-2, utrinque obtusissimis, sæpe 2-guttulatis, hyalinis.

Hab. in foliis languidis Monetiæ pr. Paraguary Brasiliæ.

72. **Phyllosticta symphoriella** Sacc. et March. in Rev. Myc. 1885, p. 147. — Maculis vagis, fuscescentibus, amphigenis; peritheciis sparsis, lenticularibus, punctiformibus, pertusis; sporulis ellipsoideis, olivaceo-fuscellis, 4-6 = 3. 4934

Hab. in foliis Symphoricarpi in Belgio. — A *Ph. Symphoricarpi* differt sporulis coloratis, quibus ad *Coniothyrium* aliquid accedit.

73. **Phyllosticta Implexæ** Passer. Diagn. F. N. III, n. 59. — Maculis discoideis v late expansis, folium dimidium et ultra occupantibus; peritheciis epiphyllis sparsis vel subgregariis, punctiformibus, depressis, opacis; sporidiis fusiformibus, continuis, acervatim visis flavidulis, singulatim hyalinis, 5-7,5 = 2,5. 4935

Hab. in foliis languidis Loniceræ implexæ, sociâ subinde *Sphærellâ Implexæ*, in horto botanico Parma Ital. bor. — Præter sporulas non atomisticas, peritheciis non prominulis neque nitidulis a *Ph. nitidula* differt.

74. **Phyllosticta Lantanæ** Pass. Erb. critt. it. II, n. 1290. — Maculis vagis, irregularibus, parvulis, mox laceratis, albis, nitidis, perithecia epiphylla, minima, atra, sparsa foventibus; sporulis integris, hyalinis, 5 = 2,5. 4936

Hab. in foliis Viburni Lantanæ, Vigheffio pr. Parma Ital. bor. — A *Ph. Viburni* Grog. in Roumeguère, Fungi gallici 2236 plane diversa.

75. **Phyllosticta Lantanoidis** Peck in 38 Rep. St. Mus. pag. 94. — Maculis latis, suborbicularibus, cinereis, sæpe brunneo-marginatis; peritheciis minutis, 100 μ. diam., vix prominulis, epiphyllis, atris; sporulis ellipticis, binucleatis, 6-8 = 4, hyalinis. 4937

Hab. in foliis vivis Viburni lantanoidis, Caroga Amer. bor. — Differt a *P. tinea* magnitudine atque sporulis.

76. **Phyllosticta Viburni** Pass. in litt. Brunaud in Rev. Myc. 1886, p. 139. — Maculis irregularibus, majusculis, griseis v. griseo-roseis, crasse rufo-brunneo-marginatis; peritheciis parcis, sparsis, minutis, nigris; sporulis oblongo-navicularibus, biguttulatis, 10-12 = 2,5-3. 4938

Hab. in foliis Viburni Tini, Saintes Galliæ (Brunaud).

77. **Phyllosticta limbalis** Pers. — Syll. III, pag. 24. — Sec. Celott. Mic. Montp. p. 12, sporulæ metiuntur 6 = 3. Nascitur quoque in Buxi foliis, Montpellier Galliæ.

78. **Phyllosticta Stillingiæ** E. et E. Journ. Myc. 1887, pag. 130. — Maculis amphigenis, definitis, rubenti-brunneis, non copiosis, 2–3 mm. diam.; peritheciis epiphyllis, sparsis, paucis, atris, convexis; sporulis oblongo-ellipsoideis, 2-guttatis, hyalinis, 5-7 ≃ 2,5-3. 4939

Hab. in foliis Stillingiæ sebiferæ, Point à la Hache, Louisiana Amer. bor. (Rev. A. B. Langlois).

79. **Phyllosticta Halstedii** Ell. et Ev. Journ. Myc. 1889, p. 146. — Maculis amphigenis, subrotundis, rubro-brunneis, 1/4–1 1/4 cm. diam., concentrice corrugatis vel zonatis, margine definito, angusto, atro cinctis; peritheciis paucis, lenticularibus, 100-150 μ. diam., innatis, in utraque folii pagina plerumque perspicuis; sporulis latis, fusoideo-oblongis, rectis, granulosis, utrinque rotundatis, 15-20 ≃ 5-7. 4940

Hab. in foliis vivis Syringæ vulgaris, New Brunswick, N. J. Amer. bor. (Dr. B. D. Halsted).

80. **Phyllosticta viridis** Ell. et Kell. Journ. Myc. 1889, pag. 142. — Maculis magnis, subindefinitis, 0,5–1 cm. lat., amphigenis, margine subpallidioribus; peritheciis hypophyllis, numerosis, suberumpentibus, parvis, 65-80 μ. lat.; contextu grosse parenchymatico; sporulis copiosis, oblongis, minutis, 2 ≃ 0,5. 4941

Hab. in foliis Fraxini viridis, Rocks County, Kansas Amer. (Bartholomew).

81. **Phyllosticta variegata** Ell. et Ev. Journ. Myc. 1889, p. 145. — Maculis numerosis, angulosis, pallide flavis, 1–3 mm. diam., margine angusto, definito, saturatius colorato cinctis; peritheciis epiphyllis, lenticularibus, nigris, 90–100 μ. diam.; sporulis ovoideis v. ellipsoideis, 4–5 ≃ 1,5–2. 4942

Hab. in foliis Fraxini, London, Canada Amer. bor. (F. Dearness).

82. **Phyllosticta Fraxini** Ell. et M. in Am. Nat. 1884, p. 189. — Maculis brunneolis, margine obscure purpuraceo, 1/2–1 cm. diam.; peritheciis epiphyllis, sparsis, lentiformibus, atris 150 μ. diam.; sporulis oblongis vel oblongo-ellipsoideis, hyalinis, 1-2 nucleatis, 7–9 ≃ 2,5–3. 4943

Hab. in foliis Fraxini, Bethlehem Amer. bor.

83. **Phyllosticta fraxinifolia** Pass. in litt. Brun. in Rev. Myc. 1886, p. 139. — Maculis epiphyllis, albis, suborbicularibus, minutis, non vel vix brunneo-marginatis; peritheciis parcis, minutis, atris; sporulis oblongis, hyalinis, obscure biguttulatis, 5 ≃ 2,5. 4944

Hab. in foliis Negundinis fraxinifoliæ, Saintes Galliæ (Brunaud).

84. **Phyllosticta sinuosa** Ell. et Mart. Am. Nat. 1884, p. 1264. — Maculis orbicularibus, 1,5-6 (plerumque 2-3) mm. lat., rubenti-brunneis, dein subnigris, margine elevato, rufescenti-nigro cinctis; peritheciis epiphyllis, sparsis, lenticularibus, 150 μ. diam., plerumque ad marginem folii; sporulis oblongis vel clavato-oblongis, hyalinis, 3,5 (immaturis?)-15 ≃ 1,5-2. 4945

Hab. in foliis Oleæ americanæ, Green Cove Springs, Florida Amer. bor.

85. **Phyllosticta Ovalifolii** Brun. Miscell. mycol. p. 14. — Maculis irregularibus, majusculis, ochraceo-pallidis, brunneo-marginatis; peritheciis globosis, punctiformibus, sparsis, nigris; sporulis oblongo-elongatis, hyalinis, 2-guttatis, 8-10 ≃ 3. 4946

Hab. in foliis Ligustri ovalifolii, Saintes, Rochefort Galliæ.

86. **Phyllosticta Epigeæ** Peck in 38 Rep. Stat. Mus. p. 94. — Maculis latis, irregularibus, brunneis vel rufo-brunneis; peritheciis minutis, 110-130 μ. diam., epidermide tectis, erumpentibus, epiphyllis, atris; sporulis ellipticis, 8 × 4, hyalinis. 4947

Hab. in foliis vivis Epigeæ repentis, Caroga Amer. bor.

87. **Phyllosticta Gaultheriæ** E. et E. in Jour. of Myc. I, p. 153. — Maculis amphigenis, sparsis, atro-roseo-purpureis, minutis, 1-2 mm., margine fusco-purpureo cinctis; peritheciis amphigenis, sublenticularibus, atris, crasse parenchymaticis, leniter prominentibus, cuticula tectis, 100-115 μ. diam.; sporulis ellipticis, hyalinis, granularibus, 5-7 ≃ 4-5. 4948

Hab. in foliis vivis Gaultheriæ procumbentis, Newfield Amer. bor.

88. **Phyllosticta garryæcola** Pass. in litt. Brun. in Rev. Myc. 1886, p. 140. — Maculis rotundatis vel suborbicularibus, brunneis, dein pallidis, demum griseo-viridibus v. griseo-brunneis; peritheciis punctiformibus, nigris; sporulis oblongis, hyalinis, 5,6 ≃ 2,5-3. 4949

Hab. in foliis Garryæ ellipticæ, Préguillac in Gallia (Brunaud).

89. **Phyllosticta Arbuti-Unedonis** Pass. Fung. Gall. novi, in Jour. d'Hist. nat. 1885, n. 4, p. 16. — Peritheciis minutissimis, atris, in maculis e fusco albicantibus, margine tenui, elevato-brunneo-cinctis; sporulis exiguis, elliptico-oblongis, hyalinis. 4950

Hab. in foliis languidis Arbuti Unedonis, prope Breuil-Magné, Saintes in Gallia (Brunaud).

90. **Phyllosticta Maximi** E. et E. Journ. Myc. 1888, p. 123. — Maculis magnis, rubenti-brunneis, saturatius marginatis, plerumque 4951

terminalibus v. lateralibus, 3-5 c.n. lat.; peritheciis sparsis, epiphyllis, minutis $^1/_3$ mm. diam., apice subacuto subprominulis; sporulis globoso-ellipsoideis, hyalinis, granulosis, 10-12 ≃ 6-8; basidiis gracilibus sporularum diametro circ. æquilongis.

Hab. in foliis Rhododendri maximi, Bedford Mass. Amer. bor. — *Ph. sphæropsideæ* et *P. terminali* similis.

91. **Phyllosticta rhododendricola** Brun. Miscell. mycol. pag. 14. — 4952
Maculis majusculis, oblongis v. irregularibus, ultra tertiam partem foliis interdum occupantibus, griseo-cinereis, anguste brunneo-marginatis; peritheciis sparsis, minutis, globosis, tectis, dein erumpentibus, nigris, nitentibus, pertusis; sporulis oblongis, elongatis, 8-10 ≃ 3, hyalinis.

Hab. in foliis languidis Rhododendri culti, Saintes Galliæ.

92. **Phyllosticta Leucothöes** Ellis New North Am. Fung. in Am. 4953
Nat. 1884, p. 1264. — Peritheciis in parte superiore foliorum decolorata, distincte marginata, brunneo-rubiginosa sparsis, globosis, 150-200 μ. diam., parcis, parenchymate immersis, apicibus vix prominulis, sed epidermide tectis; sporulis ovato-oblongis, 15-21 ≃ 6-7, granulosis vel 2-3-nucleatis.

Hab. in foliis Leucothöes acuminatæ, Green Cove Springs Amer. bor. — Differt a *Ph. terminali* folio diverse decolorato nec non sporulis multo majoribus.

93. **Phyllosticta papuensis** Cooke in Grevillea XV, pag. 18. — Epi- 4954
phylla vel amphigena; peritheciis gregariis, punctiformibus, semi-immersis, atris, nitidis, poro pertusis; sporulis linearibus, rectis, hyalinis, 10 ≃ 1.

Hab. in foliis emortuis plantæ subfruticosæ, New Guinea (Rev. S. Chalmers).

94. **Phyllosticta Nubecula** Pass. Erb. critt. it. II, n. 1474. — Perithe- 4955
ciis hypophyllis, gregariis, nubeculas griseas vagas efformantibus; sporulis tenuibus, cylindricis, rectis, 2,5 ≃ 1,8.

Hab. in foliis Castaneæ vescæ, Vigheffio prope Parma Ital. bor. — A *Ph. maculæformi* Sacc. sporularum tenuitate diversa.

95. **Phyllosticta fagicola** Ell. et Mart. Journ. Myc. 1888, p. 10. — 4956
Maculis amphigenis, orbicularibus, 1 cm. diam., sordide albis, anguste 1 mm. diam., rubro-marginatis; peritheciis nigris, sparsis, prominentibus, plerumque epiphyllis; sporulis anguste ellipsoideis, 10-13 ≃ 3-4, pallide flavidis.

Hab. in foliis Fagi ferrugineæ, Ohio Amer. bor.

96. **Phyllosticta faginea** Peck 40 Rep. p. 58. — Maculis suborbicularibus, parvis, sæpe seriatis v. subconfluentibus, foliorum venis parallele dispositis, cinereis v. griseo-rubentibus margineque rubenti-brunneis v. omnino rubenti-brunneis, subtus subferrugineis; peritheciis paucis, epiphyllis, minutis, 75 μ. lat., nigris; sporulis ovoideis v. ellipsoideis, 7,5–10 = 5–6,5. 4957

Hab. in foliis vivis Fagi ferrugineæ Argusville et Elizabethtown Amer. bor.

97. **Phyllosticta bellunensis** Mart. N. Giorn. bot. it. 1888, p. 395. — Maculis magnis, irregularibus, subrotundis, obscuris; peritheciis punctiformibus, ubique sparsis, obscuris; sporulis bacillaribus, minutissimis. 4958

Hab. in foliis Ulmi deciduis in agro bellunensi Ital. bor.

98. **Phyllosticta ulmaria** Passer. Diagn. F. N. V, n. 25. — Maculis subdiscoideis, exaridis, albidis, fusco-cinctis; peritheciis epiphyllis sparsis, punctiformibus, atris; sporulis ellipticis, hyalinis, 3,5–4 = 2,5–3. 4959

Hab. in foliis Ulmi campestris in viridario publico, Parma Ital bor. — Maculis albidis et minutie sporularum a *Phyllosticta ulmicola* diversa. Maculæ sæpius steriles.

99. **Phyllosticta lacerans** Passer. Diagn. F. N. III, n. 62. — Maculis vagis, exaridis, griseis, plus minus amplis et confluentibus, mox laceris; peritheciis exiguis punctiformibus tectis; sporulis ovoideis vel elliptico-oblongis, hyalinis, 4–7,5 = 2,5–3. 4960

Hab. in foliorum vivorum partibus exaridis, quas lacerat, Ulmi campestris, Parma Ital. bor. — A *Ph. ulmicola* differt maculis laceris et sporulis hyalinis, et a *Ph. Ulmi* sporulis minoribus.

100. **Phyllosticta alnicola** C. Mass. Contr. Mic. Ver. p. 80, t. I, f. 4. — Maculis crebris, minutis, angulosis, internerviis, sæpe confluentibus, subferrugineis; peritheciis punctiformibus, nigris, amphigenis, globulosis, prominulo-erumpentibus, 50–90 μ. diam., in soros parvos aggregatis; sporulis hyalinis, minutissimis, brevissime bacillaribus, 2–3,8 = 0,7–1, utrinque evanide subincrassato-rotundatis. 4961

Hab. in foliis languidis Alni glutinosæ prope Verona Ital. bor. — A *Ph. alnigena* satis diversa.

101. **Phyllosticta corylina** Ellis New North Am. Fungi in Amer. Nat. 1884, p. 1264. — Maculis rufo-brunneis, rotundis, 2–5 mm. diam., sæpius confluentibus et ad margines foliorum dispositis; peritheciis brunneo-nigris, erumpentibus, lenticularibus, amphigenis, 4962

90-120 μ. diam.; sporulis subhyalinis, oblongis, utrinque nucleatis, 12-15 ≃ 6-7.

Hab. in foliis Coryli americanæ, Newfield N. J. Amer. bor. — A *Ph. Coryli* et *Ph. corylaria* sporulis latioribus, characteribus macularum differt.

102. **Phyllosticta ludoviciana** Ell. et Mart. in Journ. of Myc. 1886, pag. 130. — Peritheciis amphigenis, in parte superiore magis prominulis, brunneis, laxis, erumpentibus, 150 μ. diam., in areolis rufo-brunneis, sæpe lateralibus vel in maculis ovoideis vel subangularibus, obscure subtiliterque marginatis, definitis, sparsis; sporulis ovoideis, hyalinis, 5-8 ≃ 2-3. 4963

Hab. in foliis vivis Quercus aquaticæ, Louisiana Americæ borealis.

103. **Phyllosticta ilicicola** Pass. Fung. Gall. novi, in Journ. d'Hist. nat. 1885, n. 4, p. 54. — Maculis rotundis, brunneis, arescendo griseo-cinereis, marginatis; peritheciis lenticularibus, minutis, numerosis, nigris; sporulis minutis, ellipticis, hyalinis, 5-6 ≃ 1½-2. 4964

Hab. in foliis Quercus Ilicis prope Saintes, Saujon in Gallia (Brunaud).

104. **Phyllosticta marginalis** Ell. et Ever. Journ. of Myc. 1888, p. 9. — Maculis apicalibus et marginalibus rubiginoso-brunneis, indefinitis, zona purpurescenti vage limitatis; peritheciis hypophyllis, sparsis, 150 μ. diam., prominulis, subcutaneis, nigricantibus; sporulis oblongo-ellipsoideis, hyalinis, 6-7 ≃ 2,5-3; basidiis cylindraceis, 12 ≃ 1,5. 4965

Hab. in foliis Quercus aquaticæ, Point à la Hache Louisiana Amer. bor. (Langlois). — Sporulæ subinde apiculatæ.

105. **Phyllosticta Virentis** Ell. et Langl. Journ. myc. 1890, p. 36. — Maculis amphigenis, 1 cm. diam., pallide griseo-brunneis, subirregularibus, linea subsaturatiore definite limitatis; peritheciis partim erumpentibus, parvis, 75-100 μ. lat.; sporulis oblongo-ellipsoideis, subovato-ellipsoideis vel subfusoideis, hyalinis, 4-7 ≃ 1,5-2,5. 4966

Hab. in foliis vivis Quercus virentis, Louisiana Amer. bor. (Langlois).

106. **Phyllosticta tumoricola** Peck 40 Rep. p. 57. — Maculis suborbicularibus, aridis, pallidis, margine rubente vel rubenti-brunneo cinctis; peritheciis amphigenis vel epiphyllis, minutis, 125-175 μ. lat., depressis, brnnneolis; sporulis oblongis vel anguste ellipsoideis, hyalinis, 10-12,5 ≃ 5-6,5. 4967

Hab. in foliis galligeris Quercus albæ, Karner Amer. bor.

107. **Phyllosticta salicicola** Thüm. Fung. Gall. novi, in Jour. d'Hist. nat. 1885, n. 4, p. 55. — Peritheciis epiphyllis, plerumque solitariis, parvis, hemisphærico-subemersis, lenticularibus, nigris, in macula plus minusve orbiculata, arescendo albo-grisea, sordide fusca irregulariterque marginata; sporulis numerosissimis, simplicibus, cylindrico-ellipticis, utrinque rotundatis, enucleatis, achrois, $3^1/_2$-4 = $1^1/_2$-2. 4968

Hab. in foliis Salicis albæ pr. Saintes in Gallia (Brunaud).

108. **Phyllosticta cinerea** Passer. Diagn. F. N. V, n. 26. — Maculis epiphyllis albido-cinereis; peritheciis sparsis, punctiformibus atris; sporulis minutis, integris, hyalinis, ovalibus, 5 = 2-2,5. 4969

Hab. in foliis languentibus Populi albæ, Vigheffio prov. Parma Ital. bor.

109. **Phyllosticta caryogena** Sacc. *Phyllosticta Caryæ* E. et E. Journ. Mycol. 1888, p. 107, an Peck. — Maculis subrotundis, brunneis, centro pallidioribus, utrinque sæpe acutis, folii nervo sæpe percursis, $^1/_2$-1 cm. diam., definite marginatis; peritheciis sparsis, epiphyllis, minutis, lenticularibus, nigro-brunneis, numerosiusculis; sporulis oblongis, hyalinis, circ. 5-8 = 1,5-2. 4970

Hab. in foliis viventibus Caryæ raro in gallis ejusdem, Newfield N. J. Amer. bor.

110. **Phyllosticta Caryæ** Peck 40 Rep. p. 57 (1887). — Maculis magnis, irregularibus, sæpe confluentibus, primitus flavidis, dein brunneis, interdum centro ad griseum vergentibus; peritheciis minutis, 100 μ. lat., punctatis, epiphyllis; sporulis irregulariter ellipsoideis, 5 = 2. 4971

Hab. in foliis vivis Caryæ albæ, Piffard Amer. bor.

111. **Phyllosticta Celtidis** Ell. et Kell. Journ. of Myc. 1888, p. 27. — Maculis amphigenis, sordide brunneis, suborbicularibus plus minus irregularibus, 2-10 mm. diam., supra demum cinerescentibus; peritheciis minutis, nigris, hypophyllis; sporulis oblongis, 3-4 = 0,5-0,7, hyalinis. 4972

Hab. in foliis vivis Celtidis occidentalis, Rooks Co. Kansas Amer. bor. (E. Bartholomew).

112. **Phyllosticta Macluræ** Ell. et Ev. Journ. Myc. 1889, p. 145. — Maculis atro-rubro-brunneis, subirregularibus et subindefinitis, sæpe marginatis et confluentibus, $^1/_4$-1 cm. diam.; peritheciis epiphyllis, prominentibus, $^1/_3$ mm. diam.; sporulis ovoideo-oblongis v. fusoideo-oblongis, 2-4-guttatis, 10-12 = 3. 4973

Hab. in foliis Macluræ aurantiacæ, Newfield N. J. Americæ borealis.

113. **Phyllosticta morifolia** Passer. Diagn. F. N. III, n. 61. — Maculis amphigenis subdiscoideis, arescendo sordide griseis, margine latiusculo, castaneo-fusco cinctis; peritheciis epiphyllis, gregariis punctiformibus, nigris; sporulis hyalinis, minutis, oblongis, integris, 3,5 = 1,5. 4974

Hab. in foliis languidis Mori albæ, Parma Ital. bor.

114. **Phyllosticta Fici** Bres. Rev. Myc. 1891, p. 68. — Maculis amphigenis, candidis, circularibus, zona fusca marginatis; peritheciis epiphyllis, marginalibus, prominulis, nigris, obovoideis, 150-200 μ. diam.; sporulis cylindraceis ad latera subcompressis, hyalinis, 2-guttatis, 2,5-3,5 = 0,5-0,8. 4975

Hab. in foliis Fici macrophyllæ in ins. St. Thomé (Quintas).

115. **Phyllosticta Caricæ** C. Mass. Contr. Mic. Ver. p. 86, t. I, f. 3. — Peritheciis hypophyllis, minutis, subgloboso-conicis, erumpentibus, in maculis parvis angulosis sæpe confluentibus, in pagina superiore foliorum nigrescentibus, densissime gregariis, 60-80 μ. ostiolo subhemisphærico, prominulo, celluloso-papillato; sporulis breviter oblongis ovalibusve, minutissimis, subchlorinis, 3-5 = 1,5-2. 4976

Hab. in foliis dejectis Fici Caricæ, Marcenigo pr. Tregnago agri veronensis. — Affinis *Ph. sycophilæ.*

116. **Phyllosticta Owaniana** Wint. in Hedw. 1885, I. — Peritheciis in maculis fumoso griseis, demum glaucescentibus, margine lato, fusco determinato circundatis, rotundato-angulatis vel irregularibus, interdum confluentibus, 9 × 4, epiphyllis, globosis, poro pertusis, immersis, demum erumpentibus, atris, membranaceis, 85-90 μ. latis; sporulis ovatis, subpiriformibus vel ellipsoideis, hyalinis, 10-12 × 8. 4977

Hab. in foliis languescentibus Brabeii stellatifolii ad pedem montis Tabularis Brasiliæ (Mac Owan).

117. **Phyllosticta Embotryi** Speg. F. Fueg. n. 367. — Maculis nullis vel hypophyllis fuscescentibus, indeterminatis; peritheciis hypophyllis in maculis laxe aggregatis, minutis, globulosis, 60-70 μ., epidermide velatis tenui-membranaceis, circa ostiolum vix papillulatum atris subcarbonaceis, ceterum pallide olivascentibus, contextu parenchymatico; sporulis ellipticis vel ovoideis utrinque obtusiusculis, 2,5-3 = 1,5-2, hyalinis. 4978

Hab. ad folia languida Embotryi coccinei in Aicina insula Fuegiæ.

118. **Phyllosticta soriformis** Cooke et Massee Grev. XIX, p. 47. — Maculis brunneis, orbicularibus, atro-marginatis, 2 mm. diam., amphigenis; perithēciis minutis ad centrum maculæ aggregatis, prominulis, epidermidem perforantibus (soros Uredinearum imitantibus); sporulis ellipsoideis, 4–5 ≈ 2, dilute melleis, hyalinis. 4979

Hab. in foliis Proteaceæ cujusdam, Victoria Australiæ (Mrs. Martin).

119. **Phyllosticta Perseæ** E. et M. in Jour. of Myc. 1885, p. 100. — Maculis brunneolo-griseis, apicem et latera foliorum occupantibus; peritheciis brunneo-atris, lenticularibus, innato-erumpentibus, epiphyllis, 150-300 ≈ 60-80; sporulis oblongis, hyalinis, nucleatis, 5-8 ≈ 1-3. 4980

Hab. in foliis vivis Perseæ carolinensis in Americæ borealis.

120. **Phyllosticta Linderæ** Ell. et Ev. in Journ. of Myc. 1888, p. 9. — Maculis latis, rotundis, 1 cm. diam., atro-brunneis, margine rubenti-flavo; peritheciis hypophyllis, 65-75 μ. diam., erumpentibus, late pertusis; sporulis oblongo-cylindraceis, 3-4 ≈ 0,5, hyalinis. 4981

Hab. in foliis vivis Linderæ Benzoin, Faulkland Del. Amer. bor. (Commons).

121. **Phyllosticta brasiliensis** Speg. F. Puigg. n. 403. — Maculis epiphyllis, griseis, determinatis; peritheciis circinantibus, minutis, atris; sporulis ellipsoideis, ex hyalino chlorinis, 4–8 ≈ 2–3, utrinque obtusis, subinde 2-guttatis. 4982

Hab. ad folia viva Xanthoxyleæ v. Anacardiaceæ cujusdam in dumetis pr. Apiahy Brasiliæ. — Status sporulifer *Leptosphæriæ brasiliensis* Speg. macula et perithecia ut in statu ascophoro.

122. **Phyllosticta? Pleromatis** Speg. F. Puigg. n. 405. — Maculis determinatis, amphigenis, albo-cinerescentibus, angustissime fusco-cinctis, 3-10 mm. diam.; peritheciis minutis, coriaceis, astomis, 150-200 μ. diam.; sporulis elliptico-fusoideis, hyalinis, 6-8 ≈ 2,5-3, subinde 2-guttatis. 4983

Hab. ad folia viva Pleromatis speciei cujusdam in herbosis prope Apiahy Brasiliæ.

123. **Phyllosticta Melastomacearum** Speg. F. Puigg. n. 404. — Maculis determinatis, amphigenis, rufescentibus, 3–6 mm. diam., anguste saturatius marginatis; peritheciis membranaceis, ostiolatis, atris, 70–80 μ. diam.; sporulis ellipsoideis, hyalinis, 4–5 ≈ 1,5-2, subinde 2-guttatis. 4984

Hab. ad folia viva Melastomacearum speciei cujusdam in dumetis pr. Apiahy Brasiliæ.

124. **Phyllosticta Pilocarpi** Pat. Bull. Soc. Myc. 1887, p. 129. — Maculis circularibus, albis, rufo-marginatis; peritheciis amphigenis, crebris, minutis, tectis, nigris; sporulis cylindraceis, hyalinis, sæpe 2-guttulatis, rectis curvulisve, 3 = 1. 4985

Hab. in foliis Pilocarpi pinnatifolii, in Brasilia.

125. **Phyllosticta Erythroxyli** Graziani Bull. Soc. Myc. 1891, p. 154, t. X, f. 2. — Maculis paucis, rotundis v. irregularibus, arescendo candidis, ochraceo-fulvo-marginatis, amphigenis; peritheciis epiphyllis, subglobosis punctiformibus, minutissimis, sparsis, copiosis, 50–100 μ. diam., innato-erumpentibus, laxe cellulosis, ochraceo-umbrinis, poro 15–20 μ. diam. pertusis; sporulis ellipsoideis vel longe ovatis, 5,5-6,5 = 2-3, granulosis, hyalinis. 4986

Hab. in foliis Erythroxyli Cocæ in Bolivia.

126. **Phyllosticta carniolica** Voss Mat. Pilzk. IV, p. 18, f. 8. — Peritheciis epiphyllis, minutissimis, atris, gregariis, conicis in macula expallescente, plerumque marginali, fusco-purpureo-cincta; sporulis ovoideis v. piriformibus, 2-guttulatis, hyalinis, 9–10 = 6 (ex icone). 4987

Hab. in foliis Daphnes Blagayanæ pr. Billichgratz Carnioliæ.

127. **Phyllosticta Hamamelidis** Peck 39 Rep. p. 44. — Maculis maximis, dimidium folium interdum occupantibus, irregularibus, angulosis, supra rubenti-brunneis, subtus pallidioribus; peritheciis minutissimis, 100 μ. lat., amphigenis, nigris; sporulis late ellipsoideis, hyalinis, 12,5-15 = 8,5-10, sæpe ample 1-guttatis. 4988

Hab. in foliis vivis Hamamelidis virginianæ, Day Americæ borealis.

128. **Phyllosticta Staphyleæ** Dearn. Proc. Acad. Phil. 1891, p. 77. — Maculis vinosis, dein brunneis, junioribus purpureo-marginatis; peritheciis sparsis, 90-145 μ. diam., innatis, initio vinosis, dein obscurioribus, annulo epidermico elevatulo cinctis; sporulis oblongo-ellipsoideis, hyalinis, dein brunneolis, 6-7 = 2,7-3,3. 4989

Hab. in capsulis vivis Staphyleæ trifoliæ, London Canada (Dearness).

129. **Phyllosticta Catalpæ** Ell. et Mart. in Am. Nat. 1884, p. 189. — Maculis pallide brunneis, circularibus, 5-7 mm. diam., margine obscuro; peritheciis parcis, sparsis, sæpe sterilibus, brunneis, lenticularibus, innatis, epiphyllis, 112 = 84; sporulis subhyalinis, ovatis, 5-7 = 2,5-4,5. 4990

Hab. in foliis Catalpæ bignonioidis, West Chester Americæ borealis.

130. **Phyllosticta Thunbergii** Wint. in Hedw. 1885, 1. — Peritheciis epiphyllis, gregariis, secus nervos tenuiores dispositis, macula magna, indeterminata et irregulari, pallidissime flava, centro obscuriori insidentibus, hemisphæricis, atris, nitidis, membranaceis, 150-160 μ. latis; sporulis ovatis, subpiriformibus seu late ellipticis, plerumque subirregularibus, hyalinis, intus granulosis, 12-14 ≃ 8-9. 4991

Hab. ad folia viva Cocculi Thunbergii prope Tokio Japan (Keck).

131. **Phyllosticta ivæcola** E. et E. in Journ. of Myc. 1886, p. 37. — Maculis amphigenis, parvis, 1-2 mm. diam., albescentibus, margine brunneo, vix elevatulo cinctis; peritheciis epiphyllis, punctiformibus, 75-90 μ. diam., nigris; sporulis ovato- vel oblongo-ellipsoideis, hyalinis, 4-5 ≃ 1,5. 4992

Hab. in foliis vivis Ivæ frutescentis, Plaquemines Americæ borealis.

132. **Phyllosticta Gordoniæ** E. et E. in Jour. of Myc. 1885. — Maculis atro-brunneis, siccis, apicem et margines foliorum occupantibus; peritheciis brunneo-atris, subglobosis, innatis, leniter erumpentibus, amphigenis, 120-140 μ. diam.; sporulis hyalinis, oblongis, nucleatis, 12 ≃ 3. 4993

Hab. in foliis vivis Gordoniæ Lasianthi in Amer. bor.

133. **Phyllosticta Lagerstrœmiæ** E. et E. Journ. Myc. 1888, p. 101. — Apicem emortuum foliorum occupans; peritheciis amphigenis, punctiformibus, nigris, gregariis, erumpentibus, 100-111 μ. diam.; sporulis ovoideis, granulosis, 6-8 ≃ 4-5. 4994

Hab. in foliis viventibus Lagerstrœmiæ indicæ, Point à la Hache, Louisiana Amer. bor. — *Ph. terminali* affinis sed sporulis minoribus.

134. **Phyllosticta Meliæ** Ell. et Ev. Journ. of Mycol. 1888, p. 9. — Peritheciis amphigenis, lenticularibus, erumpentibus 150 μ. diam.; sporulis oblongo-fusoideis, 2-guttatis, hyalinis, 5-8 ≃ 1,5. 4995

Hab. in foliis vivis Meliæ Azedarach, Louisiana Amer. bor. (Langlois). — Maculæ marginales, arescendo albentes. A *Ph. Azedarachis* satis diversa.

135. **Phyllosticta Aizoi** Cooke in Grevillea XIV, pag. 40. — Epiphylla; maculis parvis, suborbicularibus, brunneis, obscure marginatis; peritheciis minutis, membranaceis, brunneis, immersis; sporulis ellipsoideis, continuis, hyalinis, 3 ≃ 1,5. 4996

Hab. in foliis Sedi Aizoi, Kew London Britanniæ.

136. **Phyllosticta Opuntiæ** S. et S. — Syll. III, p. 26 — var. **microspora** Cav. Fung. parass. V, n. 118. — Peritheciis amplioribus, 200-250 μ. diam., contextu minute celluloso brunneo; sporulis ovoideis, perexiguis, hyalinis, 2,5-3,5 μ. long.; basidiis brevibus filiformibus. 4997

Hab. in cladodiis Opuntiæ Fici-indicæ, Palermo Siciliæ (Ross).

137. **Phyllosticta cycadina** Pass. Diagn. F. N. III, n. 64. — Peritheciis in macula fusco-cincta sparsis v. subgregariis, globosis, atris, per epidermidem erumpentibus, cellulis grandiusculis, fuscis, non radiatis contextis, ostiolo punctiformi; sporulis minutissimis, bacillaribus, hyalinis, 2,5 = 0,5-0,7. 4998

Hab. in foliis Cycadis revolutæ in horto botanico, Parma Ital. bor. — A *Leptothyrio Cycadis* peritheciis crassioribus epidermidem sublevantibus facile distinguenda.

138. **Phyllosticta Ginkgo** Brun. Liste Sphærops. pag. 7. — Peritheciis amphigenis, subconfertis et hinc inde maculas minutas formantibus, punctiformibus, atris; sporulis minutis, ovoideis, hyalinis, 3-4,5 = 2. 4999

Hab. in foliis delapsis Ginkgo bilobæ, Rochefort Galliæ.

II. *In Dicotyledoneis herbaceis.*

139. **Phyllosticta fatiscens** Peck 40 Rep. p. 58. — Maculis majusculis, suborbicularibus, pallidis, lineis 1 v. pluribus elevatis, concentricis notatis, margine a folio partim vel omnino rimoso-secedentibus; peritheciis minutis, 100 μ. diam., epiphyllis, primo pallidis, dein brunneolis; sporulis oblongis, rectis v. leniter curvis, 6-10 = 3-4. 5000

Hab. in foliis vivis Nupharis advenæ, Argusville, Schoharie county Amer. bor.

140. **Phyllosticta Orontii** Ell. et M. — Syll. III, pag. 59. — Var. **advena** E. et E. Journ. Myc. 1889, p. 146. — Maculis subellipsoideis, 1-1,5 cm. diam., pallide flavis, plus minus concentrice corrugatis, margine angusto, definito, subelevato cinctis, centro definito marginato et pallidiore tantum peritheciigeris; peritheciis epiphyllis, innatis, atris, subprominulis; sporulis oblongis, utrinque obtusis, 5-8 = 2,5-3. 5001

Hab. in foliis Nupharis advenæ, Canada Amer. bor. (J. Dearness). — Verisimiliter vix v. non diversa a præcedenti.

141. **Phyllosticta Sanguinariæ** Winter in Journ. of Myc. 1885. — Maculis sparsis, rotundatis vel parum irregularibus, determinatis, arescendo griseis vel albidis, margine distincto, fusco-purpureo, ambitu linea elevata, fusco-atra limitatis, area indeterminata, lata, fuscidula circumdatis, 1-5 mm. latis; peritheciis epiphyllis, gregariis, erumpentibus, punctiformibus, globosis, atris, 100 μ. diam.; sporulis numerosissimis, elliptico-oblongis, sæpe uno apice parum attenuatis, hyalinis, 5–7 ≃ 1,5–2,5. 5002

Hab. ad folia viva Sanguinariæ canadensis, Missouri in Amer. bor.

142. **Phyllosticta Trollii** Trail Trans Crypt. Scot. 1889, p. 43. — Peritheciis hypophyllis, nigris, membranaceis, depresso-globosis, 120-130 μ. diam., confertis, in maculis brunneis irregularibus, sæpius venis limitatis sitis; sporulis copiosissimis, minutis, cylindraceis 4 ≃ 1, utrinque truncatis, hyalinis. 5003

Hab. in foliis Trollii europæi, Hell's Glen Scotiæ.

143. **Phyllosticta Hamadryadis** Speg. F. Fueg. n. 369. — Maculis majusculis indeterminatis, superne sordide fuscescentibus, inferne subcinerescentibus; peritheciis hypophyllis in maculis laxe gregariis, e globoso lenticularibus 90-120 μ. diam., epidermide velatis, tenui-membranaceis, ostiolo minutissimo vix papillulatis, contextu grosse parenchymatico olivaceo; sporulis cylindraceis vel ellipticoelongatis utrinque obtusiusculis 2-4 ≃ 1 et sæpe 1-guttulatis, rectis vel curvulis, hyalinis. 5004

Hab. in foliis languidis vel emortuis Hamadryadis magellanicæ in summis montibus prope Port Cook in Staten Island Fuegiæ.

144. **Phyllosticta corrodens** Passer. Diagn. F. N. III, n. 46. — Maculis vagis, repentibus, griseis, fusco-cinctis, mox erosis; peritheciis epiphyllis punctiformibus atris; sporulis oblongo-ellipticis ad polos obscure nucleatis, integris, hyalinis, 7,5 ≃ 2,5. 5005

Hab. in foliis vivis Clematidis Vitalbæ, Vigheffio prope Parma Ital. bor.

145. **Phyllosticta bacteriosperma** Passer. Diagn. F. N. III, n. 47. — Peritheciis hypophyllis punctiformibus tectis, in maculis irregularibus angulosis fuscis sparsis; sporulis minimis, bacillaribus, æqualibus, hyalinis, 2–2,5 μ. longis. 5006

Hab. in foliis Clematidis Vitalbæ, Vigheffio prope Parma Ital. bor., socia *Septoriâ Clematidis.*

146. **Phyllosticta atro-zonata** Voss Mat. Pilz. Krains V. pag. 230, 5007

f. 4. — Maculis cinereis, centro nigris, peripherice zonis 3-4 atris cinctis, orbiculatis vel ellipticis, 1-2,5 cm. lat., epiphyllis; perithecciis punctiformibus, circinantibus, globosis, nigris; sporulis globoso-ellipsoideis, sæpe 1-3-guttatis, chlorino-hyalinis, 3-5,5 ≃ 2-3.

Hab. in foliis subvivis Hellebori viridis et altifolii, Podnart Carnioliæ super.

147. **Phyllosticta helleboricola** C. Mass. Contr. Mic. Ver. p. 81, t. 1, f. 6. — Peritheciis hypophyllis, subsphæricis, punctiformibus, pertusis, 70–100 μ., sub epidermide filamentis mycelicis arachneoso-connexis, in maculis amphigenis, aridis, angulosis, interdum confluentibus in pagina superiore foliorum albicantibus, disseminatis; sporulis minutissimis, hyalinis, subbacillaribus, 3-5 ≃ 1–1,5 μ., utrinque vix subincrassato-obtusis. 5008

Hab. in foliis languidis Hellabori viridis in Vallecula dell'Orco prope Cogolo et in selva di Progno agri veronensis. — A *Phyll. helleborella* satis distincta.

148. **Phyllosticta Commonsii** Ell. et Ev. Journ. Myc. 1889, p. 146. — Maculis pallide flavidis, definitis, 3-4 mm. diam.; perithecciis minutis, 75-80 μ. lat.; sporulis oblongis vel ellipsoideis, fumoso-hyalinis; 4-8- raro 6-7 ≃ 2-2,5. 5009

Hab. in foliis Pæoniæ, Wilmington, Del. Amer. bor. — Differt a *P. Pæoniæ* maculis definitis, perithecciis sporulisque minoribus.

149. **Phyllosticta Moutan** Passer. Diagn. F. N. III, n. 48. — Maculis fusco-atris, subdiscoideis vel oblongis; perithecciis sparsis, superficialibus, punctiformibus, fuscis; sporulis ellipticis, hyalinis, circiter 4 ≃ 2,5. 5010

Hab. in foliis languidis Pæoniæ Moutan, Vigheffio pr. Parma Ital. bor.

150. **Phyllosticta baldensis** C. Mass. Contr. Mic. Ver. p. 82, t. 1, f. 7. — Peritheciis numerosissimis, minutis, nigris, globulosis, vix prominulis, 60–80 μ., hypophyllis, epidermide velatis, dein erumpentibus, ostiolo pertusis, in maculis amphigenis, plus minusve amplis, irregularibus, internerviis, fuscis, dense disseminatis; sporulis minutissimis, continuis, breviter bacillaribus, 3-6 ≃ 1,5, utrinque (vix subincrassatis) obtusis. 5011

Hab. in pag. inf. foliorum Pæoniæ peregrinæ in M. Baldo prope Verona. — A *Phyll. Pæoniæ* omnino diversa.

151. **Phyllosticta Libertiæ** Sacc., F. Ard. n. 145, *Coniosporium Violæ* Lib. Crypt. II, n. 148, ex parte (1832). — Peritheciis minutis, 5012

globosis, atris, in maculam orbicularem atram stipatis, poro pertusis, 80–90 μ. diam.; sporulis ellipsoideis perexiguis, 1-1,5 ≈ 0,7-1, hyalinis.

Hab. in pag. sup. foliorum subvivorum Violæ odoratæ in Arduennis.

152. **Phyllosticta Libertiana** Sacc. et March. in Rev. Myc. 1885, *Coniosporium Violæ* Lib. ex p. — Peritheciis globosis, subastomis, atris, minute cellulosis, 60-70 μ. diam., dense gregariis; sporulis ellipsoideis, continuis, hyalinis, 3-4 ≈ 2-2,5. 5013

Hab. in foliis Violæ odoratæ in Belgio.

153. **Phyllosticta Saniculæ** Brun. Champ. env. Saint. p. 336. — Maculis irregularibus, brunneis; peritheciis sparsis, punctiformibus, nigris; sporulis ovoideis, oblongis, 6,5–7 ≈ 2,5, hyalinis. 5014

Hab. in foliis Sanïculæ europææ, Pessines, Saintes Galliæ

154. **Phyllosticta Chærophylli** C. Mass. Contr. Mic. Ver. p. 83, t. I, fig. 8. — Peritheciis hypophyllis, globosis, immersis, ostiolo vix prominulis, minutis, circiter 100 μ., nigro-carbonaceis, in maculis angulosis, nigris dense aggregatis sæpeque confluentibus; sporulis subcylindraceis, botuliformibusve, hyalinis, utrinque obtusis, 3-6 ≈ 1,5-2. 5015

Hab. in foliis Chærophylli hirsuti pr. Campofontana agri veronensis. — Affinis *Ph. Laserpitii.*

155. **Phyllosticta Umbellatarum** Rab. F. Eur. n. 1262 (nomen). 5016

156. **Phyllosticta Trailii** Sacc. *Phyllosticta Geranii* Trail Fung. Hard. p. 493 (1889). — Maculis hypophyllis, effusis, brunneis; peritheciis sphæricis, subcutaneis, vix papillatis, 60–80 μ. diam., tenuibus, pallide brunneis; sporulis ellipsoideis, 2–2,5 ≈ 0,7-1. 5017

Hab. in foliis Geranii silvatici, Simodal Norvegiæ.

157. **Phyllosticta Geranii** E. et E. Journ. Myc. 1887, p. 130. — Maculis amphigenis, parvis, 1–1,5 mm. lat., rotundis v. subangularibus, supra albidis, subtus rubiginosis, margine angusto, saturatius colorato, subelevato cinctis; peritheciis paucis, punctiformibus, nigris, erumpentibus, plerumque epiphyllis; sporulis subellipsoideis v. subovoideis, hyalinis, 2,5–3 ≈ 1. 5018

Hab. in foliis viventibus Geranii caroliniani, Point à la Hache, Lousiana Amer. bor. (Langlois).

158. **Phyllosticta Ipomœæ** E. et K. Journ. Myc. 1887, p. 102. — Maculis amphigenis rubiginoso-brunneis, suborbicularibus, 2-4 mm. diam., anguste atro-marginatis; peritheciis sparsis, immersis, supra prominulis; sporulis ellipsoideis, 2-guttatis, hyalinis, 4-6 ≈ 2,5-3. 5019

Hab. in foliis Ipomœæ panduratæ, Mound City Kansas Amer. bor. (W. A. KELLERMAN).

159. **Phyllosticta Desmodii** Ell. et Ev. Journ. Myc. 1889, p. 146. — Maculis amphigenis, suborbicularibus vel irregularibus, 2-5 mm. diam., sæpe plus minus confluentibus, atro-brunneis, dein centro dealbatis, demum plus minus rimulosis; sporulis oblongo-ellipsoideis, hyalinis, 3,5 ≃ 1,5-2. 5020

Hab. in foliis Desmodii, Walworth County, Wis. Amer. bor. (Doct. J. J. DAVIS).

160. **Phyllosticta astragalicola** Massal. Bot. Centr. 1890, n. 26, p. 386. — Maculis sordide olivaceis, dein expallentibus, brunneo-cinctis; peritheciis 60 ≃ 80 μ. lat., punctiformibus, amphigenis, nigris, ostiolo pertusis; sporulis breviter oblongis, eguttatis, hyalinis, continuis, utrinque rotundatis, 3-4 ≃ 1-1,5. 5021

Hab. in foliis languentibus Astragali glycyphylloidis, Ferrara Ital. bor.

161. **Phyllosticta Trifolii** Rich. Champ. Marn. n. 1549. — Maculis et peritheciis non descriptis; sporulis ovoideis 2-3 μ. longis. 5022

Hab. in foliis Trifolii repentis, socio *Polythrincio Trifolii* St. Amand Marne.

162. **Phyllosticta Ormocarpi** Bres. Rev. Myc. 1891, p. 68. — Maculis amphigenis albis rufo-lateritio-cinctis, circularibus vel oblongis; peritheciis epiphyllis, laxe gregariis, parcis, nigris, subglobosis vel lenticularibus, 100-150 μ. diam.; sporulis obovatis, hyalinis, 3-4 ≃ 1,5. 5023

Hab. in foliis Ormocarpi sesamoidis in ins. St. Thomé (MOLLER).

163. **Phyllosticta Silenes** Peck 43 Rep. pag. 26. — Maculis magnis, dimidium folium interdum occupantibus, pallidis; peritheciis amphigenis v. hypophyllis, minutis, punctiformibus, nigris, 100-125 μ. lat.; sporulis oblongis v. cylindraceis, hyalinis, 10-12,5 ≃ 3,5-5. 5024

Hab. in foliis vivis Silenes antirrhinæ, Copake Iron Works Amer. bor.

164. **Phyllosticta Zahlbrukneri** Bäuml. Crypt. Presb. I, p. 7. — Maculis subcircularibus, arescendo dealbatis, primo sanguineo demum fusco-marginatis; peritheciis epiphyllis, sparsis, lenticularibus, 150-180 μ. diam., contextu parenchymatico, dilute fuligineo, ostiolo manifesto; sporulis oblongis, 8-12 ≃ 2-3, utrinque rotundatis, hyalinis. 5025

Hab. in foliis vivis Silenes nutantis, Gemsenberg pr. Pressburg Hungariæ.

165. **Phyllosticta Cephalariæ** Wint. in Hedw. 1885, I. — Peritheciis 5026
in maculis albidis, margine atro-purpureo, latiusculo cinctis, rotundatis, angulatis vel plus minus irregularibus, demum interdum confluentibus, amphigenis, gregariis, punctiformibus, globosis, fuscis verticem versus obscurioribus, poro pertusis, demum late apertis, 60-80 μ. latis; sporulis exiguis, bacillaribus, utrinque acutiusculis unicellularibus, hyalinis, 4–5 ≃ 1.

Hab. in foliis vivis Cephalariæ attenuatæ ad montem Boschberg prope Somerset-East Africæ (Mac-Owan).

166. **Phyllosticta Scorzoneræ** Pass. in Brun. Champ. nouv. VI, p. 2, 5027
— Peritheciis hypophyllis, punctiformibus, aggregatis, maculas minutas brunneolas formantibus; sporulis breve bacillaribus, rectis curvulisve, hyalinis, 8–10 ≃ 2.

Hab. in foliis languidis Scorzoneræ humilis, Pessines Galliæ.

167. **Phyllosticta dahliæcola** Brun. Champ. Saint. 1887, pag. 429. — 5028
Maculis suborbicularibus, magnis, brunneis, dein expallentibus; peritheciis lenticularibus, tectis, nigris; sporulis ovoideis vel ovoideo-oblongis, hyalinis, 8-9 ≃ 2,5.

Hab. in foliis languidis Dahliæ cultæ, Pessines Galliæ.

168. **Phyllosticta Antennariæ** Ell. et Ev. Journ. of Myc. 1888, p. 9. 5029
— Maculis epiphyllis, atro-purpureis, centro expallente, subconfluentibus; peritheciis parcis, epiphyllis; sporulis ovoideis, 7 × 3.

Hab. in foliis vivis Antennariæ plantaginifoliæ, Faulkland Del. Amer. bor. (A. Commons).

169. **Phyllosticta Petasitidis** Ell. et Ev. Proc. Ac. Phil. 1891, p. 76. 5030
— Maculis orbicularibus, rubro-brunneis, subinde centro pallidioribus, 0,5–1 cm. diam., concentrice rugulosis, indefinite marginatis; sporulis oblongo-ellipsoideis hyalinis, 5–8 ≃ 2,5-3.

Hab. in foliis Petasitidis palmatæ, London Canada (Dearness).

170. **Phyllosticta abortiva** E. et K. in Journ. of Myc. I, p. 4. — Ma- 5031
culis brunneis, suborbicularibus, $^1/_4$-1 cm. diam., margine fusco, leniter elevato; peritheciis innatis, perforatis, minutis, atris et sparsis in maculis; sporulis..... imperfecte evolutis.

Hab. in foliis Menispermi canadensis, Manhattan Americæ borealis.

171. **Phyllosticta Menispermi** Passer. Diagn. F. N. III, n. 50. — Ma- 5032
culis vagis, angulosis, venis limitatis, superne fuscis, inferne griseis; peritheciis hypophyllis, gregariis, minutissimis, globosis, tectis,

membranaceis plus minus cærulescentibus; sporulis ellipticis, continuis hyalinis, ad polos plus minus perspicue nucleatis, rectis, 5–6 × 3.

Hab. in foliis languidis Menispermi canadensis in horto botanico Parma Ital. bor.

172. **Phyllosticta gossypina** Ell. et M. in Journ. of Myc. 1886, p. 129. 5033
— Maculis brunneolis, pallidis vel vix albis, irregularibus, 3–5 mm. latis, margine rufo-purpureo, lato cinctis, sæpe foliorum decolorantibus; peritheciis nigris, subglobosis, collapsis, membranaceis innato-erumpentibus, vix prominulis, epiphyllis, sparsis, in maculis parcis, 65–95 μ. diam.; sporulis hyalinis, ovoideis, utrinque obtusis, 2,5-3,5 × 1,5–2,5.

Hab. in foliis emortuis Gossypii herbacei in Amer. bor. (Prof. L. F. Scribner).

173. **Phyllosticta althæicola** Pass. Fung. Gall. novi, in Jour. d'Hist. 5034
nat. 1885, n. 4, p. 54. — Maculis determinatis, subcircularibus vel irregularibus, sæpe confluentibus, arescendo expallentibus, non marginatis; peritheciis sparsis, minimis, nigris; sporulis oblongis, utrinque rotundatis, binucleatis, hyalinis, 7-10 × 3.

Hab. in foliis Altheæ officinalis prope Brie-sous-Mortagne (Charente-Inferieure) in Gallia (Brunaud).

174. **Phyllosticta Pentastemonis** Cooke in Grevillea XIV, p. 90. — 5035
Maculis irregularibus, brunneis, indistincte marginatis; peritheciis subimmersis, sæpe concentrice dispositis, subinde sparsis, punctiformibus, atris; sporulis ovoideo-oblongis vel ellipsoideis, hyalinis, 5 × 3.

Hab. in foliis Pentastemonis grandiflori, Kew Britanniæ.

175. **Phyllosticta tremniacensis** C. Mass. Contr. Myc. Ver. p. 83, t. II, 5036
f. 9. — Peritheciis epiphyllis, minutis, globoso-conicis, nigris, 60–90 μ., semiimmersis, erumpentibus, ostiolo perviis, in areolis exaridis, suboblongis, haud discolori-marginatis, disseminatis; sporulis minutissimis, utrinque obtusis, breviter bacillaribus, 2,5–5 × 1–1,5.

Hab. in foliis languidis Digitalis luteæ prope Tregnago agri veronensis.

176. **Phyllosticta Venziana** Mart. in N. Giorn. bot. it. 1888, p. 396. — 5037
Maculis parvis rotundatis, griseis; sporulis oblongis, utrinque rotundatis, 12 × 5, hyalinis.

Hab. in foliis vivis Lamii, in agro bellunensi Ital. bor.

177. **Phyllosticta Lycopi** Ell. et Ev. Proc. Ac. Phil. 1891, p. 76. — 5038

Maculis amphigenis, tenuibus, albis, griseo-variegatis, dein deciduis, sæpe confluentibus, 1-3 mm. diam., anguste nigro-limitatis; peritheciis epiphyllis, sublenticularibus, nigris, pertusis, 80-100 μ. diam., parcis; sporulis copiosis ellipsoideis, hyalinis, 2-guttatis, 2,5-3 ≃ 1,5.

Hab. in foliis Lycopi canadensis, London Canada (I. Dearness).

178. **Phyllosticta Labiatarum** Rab. F. Eur. n. 1260 (nomen; n. v.). 5039

179. **Phyllosticta Melissophylli** Passer. Diagn. F. N. III, n. 60. — Maculis amphigenis discoideis vel angulosis arescendo albido-griseis, halone fusco-rubiginoso circumdatis; peritheciis epiphyllis subgregariis punctiformibus tectis; sporulis oblongis, utrinque nucleatis et rotundatis, integris, hyalinis, 7,5-10 ≃ 4,5. 5040

Hab. in foliis Melittis Melissophylli, Collecchio pr. Parma Ital. bor.

180. **Phyllosticta Calaminthæ** Ell. et Ev. Journ. Myc. 1889, p. 145. Maculis amphigenis, definitis, rotundis, 1-2 mm. diam., subnigris, demum albidis, tenuibus; peritheciis paucis, lenticularibus, epiphyllis, supra pertusis, 80 μ. diam.; sporulis ellipsoideis, hyalinis, 2-guttatis, 3,5-4,5 ≃ 2-2,5. 5041

Hab. in foliis Calaminthæ Clinopodii, London, Canada Amer. bor.

181. **Phyllosticta Lycopersici** Peck 40 Rep. p. 57. — Maculis magnis, suborbicularibus, cinereis; peritheciis minutis, brunneis vel nigrescentibus, poro 1 v. subinde 2 pertusis; sporulis copiosis, oblongis v. ellipsoideis, 6-7,5 ≃ 2,5-3. 5042

Hab. in fructu Lycopersici esculenti, Menands, Albany county Amer. bor.

182. **Phyllosticta phytolaccicola** Brun Miscell. mycol. p. 15. — Maculis parvis, rotundatis, pallide brunneis, anguste brunneo-marginatis; peritheciis parum numerosis, minutissimis, nigris; sporulis ovoideis, hyalinis, 5 ≃ 2,5. 5043

Hab. in foliis Phytolaccæ acinosæ, Rochefort Galliæ.

183. **Phyllosticta Epilobii** Brun Champ. env. Saint. p. 336. — Maculis rotundis, parvis, albidis, margine pallide brunneo cinctis; peritheciis sparsis, tectis, dein erumpentibus, punctiformibus, albidis; sporulis oblongis, 2-guttatis, hyalinis, 7 ≃ 2,5. 5044

Hab. in foliis Epilobii hirsuti, Saintes Galliæ.

184. **Phyllosticta Mitellæ** Peck 39 Rep. p. 44. — Maculis suborbicularibus, brunneis; peritheciis minutis, 62,5-75 μ. lat., amphigenis, nigris; sporulis subglobosis, hyalinis, 5-6,5 μ. long. 5045

Hab. in foliis vivis Mitellæ diphyllæ, Newburgh Americæ borealis.

185. **Phyllosticta Lagenariæ** Passer. Diagn. F. N. III, n. 58. — Peritheciis epiphyllis, minutis gregariis, in maculis sordidis discoideis v. irregularibus mox laceris; sporulis oblongis, utrinque rotundatis rectis, eguttulatis, hyalinis, 10-12,5 ≃ 5. 5046

Hab. in foliis languidis Lagenariæ vulgaris in horto botanico Parma Ital. bor.

186. **Phyllosticta orbicularis** E. et E. Journ. Myc. 1888, pag. 10. — Maculis orbicularibus, magnis, 3 cm. lat., cinereo-brunneis, anguste atro-marginatis; peritheciis plerumque epiphyllis, prominentibus, circ. 100 μ. diam., supra late pertusis; sporulis subacute ellipsoideis, hyalinis, 5-6 ≃ 2-2,5. 5047

Hab. in foliis Cucurbitæ Peponis, Faulkland, Del. Amer. bor. — Superficies folii circa maculas flavescens. Differt a *Ph. Cucurbitacearum* sporulis non incurvis.

187. **Phyllosticta Pirolæ** Ell. et Ev. Journ. Myc. 1889, pag. 145. — Maculis amphigenis, rubenti-brunneis, orbicularibus, margine angusto, subelevato cinctis, 1,5-2 mm. diam.; peritheciis epiphyllis, erumpentibus, globosis, 100-112 μ. diam.; sporulis ovato-globosis, hyalinis, 5-6 μ. long. 5048

Hab. in foliis vivis Pirolæ rotundifoliæ, Centreville, Del. Amer. bor. (A. Commons).

188. **Phyllosticta Stephanotidis** Grove in Journ. of Bot. 1886. — Maculis rotundatis vel irregularibus, albidis, linea tenui, fusco-nigra cinctis; peritheciis epiphyllis, numerosis, sparsis, atris, lenticularibus, depresso-papillatis, 1/4 mm. diam., epidermide ostiolo pertusâ; sporulis oblongis, utrinque rotundatis, 12-16 ≃ 4-5, hyalinis. 5049

Hab. in foliis Stephanotidis, Sutton Warwickshire Britanniæ. — A *Ph. Asclepiadearum* peritheciis sporulisque multo majoribus differt.

189. **Phyllosticta Apocyni** Trelease Prelim. List. par. Fungi of Wis. pag. 17 (Nov. 1884), *Ph. Apocyni* Ellis et Mart. New North Am. Fungi in Am. Nat. Dec. 1884, p. 1264. — Epiphylla, in maculis rolimitatis, 1-2 mm. diam., margine vix tumidulo, brunneo; perithetundis, definite ciis subglobosis, erumpentibus, sæpe centrum macularum occupantibus; sporulis globosis v. ovatis, 7-9 μ. diam., granuloso-farctis, iis *P. Asclepiadearum* latioribus. 5050

Hab. in foliis Apocyni cannabini, Wisconsin, New Jersey in America bor.

190. **Phyllosticta Molluginis** Ell. et Halst. Journ. Myc. 1890, p. 33. 5051
— Peritheciis amphigenis, sparsis, nigris, prominentibus, 80–100 μ. diam.; sporulis oblongis v. ellipsoideo-oblongis, hyalinis, 8–10 ≃ 3–4.

Hab. in foliis Molluginis verticillatæ, New Brunswick, N. J. Amer. bor.

191. **Phyllosticta Diapensiæ** Pat. in Rev. Myc. 1884, p. 181. — Ma- 5052
culis epiphyllis, albidis; peritheciis minutis, globulosis, nigris; sporulis numerosissimis, hyalinis, tenuissimis, 3 ≃ 1.

Hab. in foliis Diapensiæ, Yunnam Sinarum (Ab. Delavay).

192. **Phyllosticta Dodecantheæ** Trelease Paras. Fungi Wiscos. p. 16. 5053
— Maculis circularibus, brunneis, circiter 3 mm. diam.; sporulis hyalinis, ovoideo-oblongis, sæpe subsphæroideis, eguttulatis, 3,5–7 ≃ 2–5.

Hab. in foliis Dodecantheæ Meadiæ, Stougthon Amer. bor.

193. **Phyllosticta Mentzeliæ** Ellis et Kellerm. in Journ. of Myc. 1886, 5054
p. 4. — Maculis amphigenis, pallidis, definitis, $^1/_4$–$^1/_2$ cm. diam.; peritheciis immersis, sæpe epiphyllis, fere 100 μ. diam., atris; sporulis oblongis, 5–7 ≃ $2^1/_2$–3.

Hab. in foliis vivis Mentzeliæ nudæ, Kansas Amer. bor.

194. **Phyllosticta japonica** Fautr. Rev. Myc. 1891, p. 9. — Maculis 5055
aridis irregularibus; peritheciis exiguis, 100 μ. diam., pallidis dein griseis, sparsis; sporulis oblongis, 2-guttatis, 8 ≃ 2,5–3.

Hab. in foliis Humuli japonici in horto Noidan Côte d'Or Galliæ.

195. **Phyllosticta Humuli** S. et S. — Syll. III, p. 53. — Var. **major** 5056
E. et E. Journ. Myc. 1889, p. 145. — Maculis sordide rubiginoso-albis, dein albescentibus, 2-3 mm. diam., suborbicularibus, anguste elevato-marginatis; peritheciis epiphyllis, innatis, flavidis, 80–90 μ. lat.; sporulis 1–3-guttatis, 12–16 ≃ 4–5.

Hab. in foliis Humuli, Jowa Amer. bor. (A. S. Hitchcock).

196. **Phyllosticta Gunneræ** Speg. F. Fueg. n. 368. — Maculis nullis 5057
v. pallescentibus, indeterminatis; peritheciis hinc inde laxe gregariis, e lenticulari conoideis, 80–100 μ. diam., prominulis, atris, glabris, ostiolo impresso, latiusculo, 10 μ. diam., circa ostiolum subcarbonaceis, ceterum membranaceis, contextu grosse parenchymatico; sporulis cylindraceis, utrinque subtruncato-rotundatis, 2,5–4 ≃ 1, ac sæpe minute 1-guttulatis, rectis v. curvulis, hyalinis.

Hab. ad folia languida Gunneræ magellanicæ in herbosis prope Agaia in Hoste island, Fuegiæ.

197. **Phyllosticta Chamissoæ** Speg. Guar. I, p. 141. — Maculis amphigenis orbicularibus, 5 mm. diam., arescenti-pallidis, zona fusca v. ferruginea cinctis; peritheciis tectis, globoso-lenticularibus, atris, dein collabentibus, 150-200 μ. diam., pertusis, contextu minute cellulosis; sporulis ellipsoideis v. ovoideis, 9-12 ≃ 3-3,5, basi curvulis, acutis, hyalinis. 5058

Hab. in foliis vivis Chamissoæ celosioidis prope Guarapi Brasiliæ.

198. **Phyllosticta Amaranthi** E. et K. in Jour. of Myc. I, pag. 4. — Maculis roseo-brunneis (2-4 mm.) margine atro cinctis; peritheciis 6-12 in quaque macula, epiphyllis, erumpentibus, amplis; sporulis oblongo-ellipticis, 2-nucleatis, 9-11 ≃ 3-5. 5059

Hab. in foliis Amaranthi retroflexi, Garden City Americæ borealis.

199. **Phyllosticta Tokutaroi** Speg. in Rev. Myc. 1886, pag. 183. — Maculis sparsis, solitariis, irregulariter orbicularibus, parvulis, 2-3 mm. diam., centro pallescentibus, areola sordide intenseque castaneo-fusca, indeterminata, latiuscula cinctis; peritheciis paucis, prominulo-subexsertis, globoso-depressis, 257 μ. d., atris, glabris v. subpapillosis, ostiolo parum manifesto, in senectute lacero-dehiscente, coriacellis, contextu sinuoso-parenchymatico, olivaceo-atro, subpellucido donatis; basidiis fasciculatis, obclavato-elongatis, 25 ≃ 2-3, hyalinis, monosporis, continuis; sporulis ellipticis vel ovoideis rectis v. inæquilateralibus, 5-6 ≃ 2-2½, hyalinis. 5060

Hab. ad folia viva Polygoni multiflori in dumetis prope Tokio Japonica.

200. **Phyllosticta Nieliana** Roum. F. Gall. exs. n. 4469. — Maculis rubentibus, margine atro-purpureo cinctis, subrotundis v. confluendo difformibus; peritheciis parcis, subepidermicis, minutissimis, 80-150 μ. diam.; sporulis fusoideis, continuis, 6 ≃ 2. 5061

Hab. in foliis vivis Polygoni Bistortæ Eugon, Orne Galliæ (E. Niel). — An spermogonium *Sphærellæ Polygonorum?*

201. **Phyllosticta Rhei** Ell. et Ev. Journ. Myc. 1889, p. 145. — Maculis plerumque marginalibus, subconfluentibus, magnis 1-2 cm. lat., rubiginoso-brunneis, concentrice zonatis, non marginatis vel linea subsaturatius limitatis, zona extima lata, pallide flava omnino cinctis; peritheciis innatis, in folio utrinque subprominulis, majusculis, 100-150 μ. diam., non copiosis; sporulis oblongo-ellipsoideis, 2-guttatis, utrinque rotundatis, hyalinis, 5-7 ≃ 2-2,5. 5062

Hab. in foliis Rhei officinalis, Newfield N. J. Amer. bor.

202. **Phyllosticta Fourcadei** Sacc. *Phyllosticta Rhei* Roum. F. Gall. exs. n. 4168, nec E. et E. — Maculis subovatis, angulosis, solitariis dein confluentibus, multizonatis, rubentibus margine angustissimo saturatiore cinctis; peritheciis epiphyllis punctiformibus, nigris, parcis; sporulis oblongis, perexiguis, 1-1,5 × 1, hyalinis. 5063

Hab. in foliis vivis Rhei Rhapontici culti, Bagnères de Luchon Galliæ (Ch. Fourcade).

203. **Phyllosticta Rhei** Ell. et Ev. Proc. Acad. Phil. 1891, p. 77. — Maculis latis 1 cm. et amplius diam., rubenti-brunneis, concentrice zonatis; sporulis oblongis vel clavato-oblongis vel ellipsoideis, 2-3-nucleatis, hyalinis, 7-12 × 3,5-4,5. 5064

Hab. in foliis Rhei Rhapontici, Newfield N. J. et New Brunswick Amer. bor. (Halsted).

III. *In Monocotyledoneis.*

204. **Phyllosticta Palmetto** Ell. et Ev. Journ. Myc. 1889, p. 146. — Maculis subellipsoideis, 0,5-1 cm. long., 0,25-0,5 cm. lat., pallidis, margine flavo-tincto cinctis; peritheciis amphigenis, pustuliformibus 110–150 μ diam., plumbeis, centro minute et rotunde pertusis; contextu minute parenchymatico; sporulis cylindraceis, obtusis, 2-3-guttatis, hyalinis, 12-14 × 2,5-3. 5065

Hab. in foliis Sabal Palmetto, sæpe sociâ *Sphærellâ sabaligenâ* (an ejus status spermogonicus?) in Lousiana (Langlois) et Leland, Miss. (Tracy) Amer. bor.

205. **Phyllosticta palmicola** Cooke in Grevillea XIV, p. 90. — Maculis irregularibus, amphigenis, albido-cinereis, margine subelevato fusco; peritheciis subinnatis, atris, minutis, pertusis, plerumque numerosissimis; sporulis elliptico-cylindraceis, hyalinis, 5 × 2. 5066

Hab. in foliis Palmarum, Daintree Australiæ.

206. **Phyllosticta cocoina** Sacc. in Rev. Myc. 1885, p. 158. — Maculis amphigenis, subcircularibus, amœne rubro-crocatis, anguste marginatis; peritheciis paucis, punctiformibus, atris, innatis; sporulis ellipsoideis, 7-8 × 6-7, hyalinis, paucigguttulatis. 5067

Hab. in foliis Cocos nuciferæ in insula Tahiti (Brunaud).

207. **Phyllosticta cocophila** Passer. Diagn. F. N. III, n. 63. — Maculis exaridis, candidis, irregularibus, oblongis, fusco marginatis; peritheciis atris, subglobosis epidermidem lacerantibus; sporulis oblongo-lanceolatis, achrois, opacis endoplasmate granuloso repletis, sterigmatibus longiusculis filiformibus fultis, 15–20 × 6-7,5. 5068

Hab. in foliis Cocoes flexuosæ in horto botanico Parma

Ital. bor. — Sporulis multo majoribus a *Ph. Cocos* et *Ph. cocoina* pariter distinguenda. «Sporulæ quasi *Macrophomæ*».

208. **Phyllosticta vagans** Peck 40 Rep. p. 58. — Maculis nullis; peritheciis minutis, 75–88 μ. lat., amphigenis, numerosis, totum folium occupantibus, nigris; sporulis minutissimis, spermatoideis, 3 × 1. 5069

Hab. in foliis emortuis Smilacinæ racemosæ, Corklingville Amer. bor. — Species ob sporulas minutissimas spermatoideas sat anomala.

209. **Phyllosticta potamia** Cooke in Grevillea XIV, p. 39. — Maculis pallidis, ochraceis, dein brunneis, indistincte marginatis; peritheciis præcipue in pagina inferiore, punctiformibus, atris, subinde protuberantibus, nitidis; sporulis ellipsoideis, hyalinis, 10–12 × 3. 5070

Hab. in foliis Potamogetonis, Lyndhurst, Hantg Epping Forest Britanniæ.

210. **Phyllosticta Danaës** Pass. in litt. Brun. in Rev. Myc. 1886, p. 140. — Maculis amplis, irregularibus vel indeterminatis, griseis dein albescentibus, margine tenui, brunneo; peritheciis amphigenis, minutis, globulosis, nigris, primum tectis; sporulis ovoideis, non guttulatis, hyalinis, 8 × 5. 5071

Hab. in cladodiis Rusci racemosi in Horto botanico Rochefort Galliæ (Brunaud).

211. **Phyllosticta Cordylines** Sacc. et Berl. Misc. Myc, II, n. 36. — Maculis vagis, expallentibus; peritheciis crebris, epiphyllis, punctiformibus, globoso-depressis, pertusis, 60-90 μ. diam.; sporulis oblongis, 2-guttulatis, 4-5 × 1, hyalinis. 5072

Hab. in foliis Cordylines terminalis, Tambourine in Australia.

212. **Phyllosticta yuccogena** E. et E. Journ. Myc. 1887, p. 130. — Maculis amphigenis, discoideis, oblongis vel acute ellipsoideis, supra et subtus concavis, margine obtuso, elevato cinctis, 1–2 × 0,5 cm.; peritheciis immersis, magnis, 0,5 mm., sparsis, amphigenis, interdum subconfluentibus, epidermidem erumpentibus, sporulis irregulariter ellipsoideis et subinæquilateralibus, utrinque subacutis, hyalinis, granuloso-farctis, 18–22 × 7–8. 5073

Hab. in foliis Yuccæ, Florida Amer. bor. (W. W. Calkins). 5074

213. **Phyllosticta Arisari** Bres. Fung. Lusit. pag. 6. — Maculis epiphyllis, subrotundis, fuscidulis; peritheciis gregariis punctiformibus globoso-conicis, subprominulis, 90-150 μ. diam.; sporulis cylindraceis vel ellipticis, pallide olivaceis, guttulatis, 5–6 × 2,5–3.

Hab. in foliis Arisari vulgaris, S. Bento prope Coimbra Lusitaniæ.

214. **Phyllosticta Sagittifoliæ** Brun. Suppl. Sphæroid. p. 1. — Maculis subrotundis v. oblongis, ochraceis, atro-brunneo-marginatis; peritheciis sublenticularibus, nigricantibus, minutis; sporulis oblongis vel ovoideo-oblongis, rectis v. curvulis, eguttatis, hyalinis, 8 = 3. 5075

Hab. in foliis Sagittariæ sagittifoliæ pr. Saintes Galliæ.

215. **Phyllosticta Rostkoviæ** Speg. F. Fueg. n. 373. — Maculis nullis v. apicalibus, pallescentibus; peritheciis laxissime gregariis, immersis, epidermide velatis e lenticulari globosis 80-90 μ. diam., atris, glabris membranaceo-coriacellis, ostiolo impresso minutissimo, contextu densiuscule, parenchymatico parum distincto, fusco-atro; sporulis cylindraceis vel subfusoideis utrinque acutiuscule rotundatis, 3-4 = 0,8, rectis v. curvulis, eguttulatis, hyalinis. 5076

Hab. in culmis languidis Rostkoviæ grandifloræ in Staten island Fuegiæ.

216. **Phyllosticta bambusina** Speg. Guar. I, p. 142. — Maculis nullis; peritheciis adnato-superficialibus, subellipticis, 0,2-0,3 mm. long., 0,15 mm. lat., atris, glabris, rimose inæqualiter dehiscentibus, subcarbonaceo-carnosulis, indistincte parenchymaticis, atro-fuligineis; sporulis ellipticis 10 = 3, basi acutato-truncatis, 2-guttulatis, hyalinis. 5077

Hab. in foliis vivis Bambusaceæ, sociâ *Phyllach bambusinâ*, prope Naranjo Brasiliæ.

217. **Phyllosticta Spartinæ** Brun. Champ. Saint. VII, p. 4. — Maculis suborbicularibus, minutis, albis, brunneo cinctis; peritheciis punctiformibus, nigris, parcis; sporulis subovoideis, hyalinis, exiguis, 3-3,5 = 2. 5078

Hab. in vaginis Spartinæ strictæ, Foures prope Saintes Galliæ.

218. **Phyllosticta Stenotaphri** Thuem. Pilz. d. Gazell. p. 5. — Peritheciis solitariis, parcissimis, minutis, hypophyllis, conoideo-subglobosis, atris, semiimmersis, in macula suborbiculato-inæquali, sat magna arescendo pallide griseo-fuscidula, late irregulariter ochraceo-marginata; sporulis minutissimis, globulosis, 1,5 μ. diam., hyalinis. 5079

Hab. in foliis languidis Stenotaphri subulati in nova Guinea.

219. **Phyllosticta stomaticola** Bäuml. Myc. Not. II, p. 1. — Maculis rotundatis v. irregularibus, arescendo dealbatis, rubro-marginatis; 5080

peritheciis semper ad stomata nidulantibus, globosis vel oblongis, 100-130 ≃ 60-80, contextu laxe parenchymatico, brunneo; sporulis oblongis, lunulatis, utrinque attenuatis, 14-18 ≃ 2-2,5, hyalinis, continuis.

Hab. in foliis vivis Arrhenatheri elatioris pr. Pressburg Hungariæ.

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220. **Phyllosticta divergens** Sacc. F. Abyss. n. 35, f. 14. — Maculis 5081
amphigenis subcircularibus, minutis, pallide alutaceis, sæpe anguste fusco-marginatis; perithecis epiphyllis, punctiformibus, lenticulari-globulosis, nigris, anguste pertusis; sporulis breve fusoideis, rectis, 6-8 ≃ 4, nubilosis, hyalinis, basidiis brevibus conoideis suffultis, pseudoparaphysibus filiformibus, 15 ≃ 5, hyalinis intermixtis.

Hab. in foliis subvivis Albizziæ anthelminticæ, Keren Abyssiniæ (Penzig). — Socia adest *Ravenelia minima.*

221. **Phyllosticta Papayæ** Sacc. F. Abyss. n. 36. — Maculis epiphyl- 5082
lis, minutis, subcircularibus, albidis; peritheciis punctiformibus, nigris, pertusis, 150 μ. diam., contextu fuligineo-olivaceo, minute parenchymatico; sporulis oblongis, 2,5-3,5 ≃ 1, hyalinis.

Hab. in epicarpio Caricæ Papayæ, Keren Abyssiniæ (Penzig). — Adsunt in epicarpio maculæ elevatæ, eximie stellatæ, albidæ nitidæ (tumores?) mihi ignotæ.

PHOMA Fr. em. Desm. — Syll. III, p. 65.

I. *In Dicotyledoneis lignosis.*

1. **Phoma Styphnolobii** Brun. Suppl. Sphæroid. p. 1. — Peritheciis 5083
sparsis v. adproximatis, globuloso-lenticularibus, brunneo-nigrescentibus, intus pallidioribus, epidermide decolorata tectis, dein vix erumpentibus; sporulis oblongo-fusoideis, hyalinis, 2-guttatis, 8 ≃ 2,5-3; basidiis filiformibus, subcurvulis, sporulis, 2-3-plo longioribus.

Hab. ad ramos emortuos Styphnolobii pendu li, Rochefort Galliæ.

2. **Phoma Daviesiæ** Cooke et Mass. Grev. XVIII, p. 7. — Hypophyl- 5084
la; peritheciis minutissimis, tectis, atris, maculas nebulosas efformantibus, conidiis ovalibus, profusis, hyalinis, 5 ≃ 3.

Hab. in foliis emortuis Daviesiæ latifoliæ, Victoria Australiæ (Domina Martin).

3. **Phoma compressa** Karst. et Har. Journ. Bot. 1890, p. 357. — Peri- 5085
theciis gregariis, sæpe confluentibus, inter fibras immersis, vertice nigrescente leviter emergente, ostiolo prominulo, papillato vel compresso, sæpe nullo, atro, elongatis, rarissime rotundatis, circ. 0,2 mm. longis; sporulis fusoideis v. ovoideo-elongatis, rectis, hyalinis, 8–12 ≃ 2; basidiis flexuosis v. curvatis, 30 ≃ 1.

Hab. in ramis cortice orbatis Cytisi Laburni in Neustria Galliæ (Lebisey). — Forte typus novi generis «*Phlyctænella*» nuncupandi et *Phlyctænæ* respondentis.

4. **Phoma spartiicola** P. Brun. Esp. Sphærops. p. 1. — Peritheciis 5086
sparsis, tectis, vix erumpentibus, globosis, nigris; sporulis subovoideis, 2,5-3,5 ≃ 0,5-2, hyalinis.

Hab. in ramulis emortuis Spartii juncei, Saintes Galliæ.

5. **Phoma Herminieræ** Cooke in Grevillea XIII, p. 93. — Peritheciis 5087
minutis dense, gregariis, cortice nidulantibus, primo cuticula stellatim rupta tectis, atris; sporulis lanceolatis, binucleatis, hyalinis, 10 ≃ 3,5; basidiis simplicibus vel furcatis, elongatis, 40 μ. longis.

Hab. in cortice Herminieræ Elaphroxyli, Kew Britanniæ.

6. **Phoma navicularis** Passer. Diagn. F. N. IV, n. 70. — Peritheciis 5088
longitudinaliter crebre digestis v. sparsis, per corticem fissum v. stellatim ruptum pustuliformiter erumpentibus, globosis, atris, nucleo fusco; sporulis navicularibus, majusculis, biguttulatis, continuis, hyalinis, 10 ≃ 3,5–4, basidiis bacillaribus, subæquilongis fultis.

Hab. in ramulis siccis Gleditschiæ Triacanthi, Parma Ital. bor.

7. **Phoma Julibrissin** Pass. et Roum. in Rev. Myc. 1885, p. 172. — 5089
Peritheciis laxe gregariis vel sparsis, subglobosis, atris; sporulis cylindricis, numerosissimis, minutis, hyalinis, utrinque nucleatis, 4-5 ≃ 2,5; basidiis nullis vel obsoletis.

Hab. ad legumina fracida Mimosæ Julibrissin cultæ in Horto Mimatensi Galliæ (Reliquiæ Prostii).

*7. **Phoma Henningsii** Sacc., *Ph. Acaciæ* P. Henn. Fung. afr. p. 368, 5090
nec Penz. et Sacc. — Peritheciis gregariis, immersis, epidermide velatis, pustulatis, pallidis; sporulis breve cylindraceis v. ellipsoideis, 3,5–5 ≃ 2, hyalinis.

Hab. in ramis emortuis Acaciæ etbaicæ pr. Mai Baba et Belta (Mensa) Abyssiniæ (Schweinfurth).

8. **Phoma Camelliæ** Pass. Rev. myc. 1887, p. 145. — Peritheciis 5091
sparsis, subglobosis, epidermidem subelevantibus, tectis, tandem erumpentibus, minute papillatis, atris; sporulis oblongo-ellipticis

v. subfusiformibus, apicibus plus minus perspicue guttatis, hyalinis, 5-7,5 = 2,5; basidiis non visis.

Hab. in ramulis vivis v. languidis Camelliæ japonicæ in frigidariis Parmæ Ital. bor.

9. **Phoma Brunaudi** Sacc. *Phoma Camelliæ* Brun. Miscell. Mycol. p. 15 nec Pass. — Peritheciis sparsis, globosis, tectis, dein vix erumpentibus, nigris; sporulis ovoideis v. oblongo-ovoideis, hyalinis, continuis, 5-5,5 = 2,5-3; basidiis longissimis, rectis v. hamatis. 5092

Hab. in caulibus emortuis Camelliæ japonicæ, Saintes Galliæ.

10. **Phoma Camilleæ** Cooke in Grev. XIII, p. 4. — Hypophylla; peritheciis sparsis, minutis, membranaceis, vix 100 μ. diam. poro pertusis; sporulis ellipticis, crasse 2-nucleatis, 10 = 5. 5093

Hab. in foliis Camilleæ (Camelliæ?) Theæ, Johore Perak Indiæ.

11. **Phoma ejiciens** Pass. Rev. myc. 1887, p. 145. — Peritheciis crebre sparsis, minutissimis, tectis, epidermidem angustissime perforantibus, globulo minuto, atro v. filo-tenuissimo dehiscentibus; sporulis subfusiformibus, utrinque guttulatis, hyalinis, 5-6 = 2-2,5; basidiis non visis. 5094

Hab. in ramulo arido Camelliæ japonicæ in frigidariis Parmæ Ital. bor.

12. **Phoma tecta** Pass. in Rev. myc. 1887, p. 145. — Peritheciis sparsis, tectis, epidermidem pustulatim sublevantibus et vix findentibus; sporulis minutis, ellipticis, eguttatis, hyalinis, 2,5-3 = 1,5; basidiis tenuibus, longiusculis. 5095

Hab. in ramulis aridis Camelliæ japonicæ in frigidariis Parmæ Ital. bor.

13. **Phoma longicruris** Pass. Rev. Myc. 1887, p. 145. — Peritheciis subcutaneis, minutis, pustuliformibus, vix erumpentibus; sporulis subfusiformibus, apice guttatis, hyalinis, 7,5 = 2,5; basidiis filiformibus, 20–25 μ. long. 5096

Hab. in ramulis aridis Camelliæ japonicæ in frigidariis Parmæ Ital. bor.

14. **Phoma tenuis** Pass. in Rev. myc. 1887, p. 145. — Peritheciis crebre sparsis, epidermidi innatis, minutis atris,; sporulis bacillaribus, exiguis, integris, hyalinis, 2,5-3 = 0,5; basidiis filiformibus, 10–12 μ. long. 5097

Hab. in ramulis aridis Camelliæ japonicæ in frigidariis Parmæ Ital. bor.

15. **Phoma pterogena** Passer. Diagn. F. N. IV, n. 66. — Peritheciis 5098
minimis punctiformibus, ostiolo atro, tantum perspicuo v. tandem nudatis, globosis, atris; contextu fuligineo, minute celluloso; sporulis innumeris, bacteriformibus, hyalinis.

Hab. in fructibus dejectis Liriodendri Tulipiferæ in horto botanico parmensi Ital. bor.

16. **Phoma Thümenii** Passer. Diagn. F. N. IV, n. 65, *Ph. Liriodendri* 5099
Thüm. Fungi littor. 170? — Peritheciis minutis, gregariis v. lineari-seriatis, hypodermeis erumpentibus, globosis, atris; sporulis ellipticis v. elongatis, hyalinis, non guttulatis, 5–7 ≃ 2,5-3.

Hab. in ramulis siccis Liriodendri Tulipiferæ in horto botanico parmensi, Ital. bor.

17. **Phoma cratægicola** Berl. et Bres. Micr. Trid. p. 61. — Perithe- 5100
ciis hypophyllis, sparsis, minutis, 70–100 μ. diam., tectis, ostiolo minuto pertusis, vix prominulis, contextu laxe parenchymatico, fuligineo; sporulis numerosis, oblongis, 6-8 ≃ 2,5, hyalinis, eguttulatis.

Hab. in foliis emortuis Cratægi monogynæ prope Trento Ital. bor.

18. **Phoma dealbata** Passer. Diagn. F. N. IV, n. 71. — Peritheciis epi- 5101
dermide albicante velatis; sporulis minimis, bacillaribus, sterigmatibus longioribus fultis.

Hab. in ramulis siccis Amygdali Persicæ, Vigheffio Italiæ borealis.

19. **Phoma Pomi** Passer. Diagn. F. N. IV, n. 73. — Peritheciis in 5102
matrice albo-pulverulenta gregariis, pustuliformibus, tectis; ostiolo papillari, atro; sporulis cylindricis, hyalinis, obscure biguttulatis, 5 ≃ 1,5; basidiis non visis.

Hab. in fructu indurato Cydoniæ sinensis, Vigheffio pr. Parmam Ital. bor.

20. **Phoma Aucupariæ** Bres. Rev. Myc. 1891, p. 25, t. 114, f. IV. — 5103
Peritheciis subcutaneis, majusculis, gregariis v. interdum cæspitosulis, $^1/_3$–$^1/_2$ mm. diam., e subgloboso depressis, ostiolo conico pertusis; contextu parenchymatico fuligineo, sporulis oblongis, hyalinis, 8-10 ≃ 3,5-4,5.

Hab. in ramis Sorbi Aucupariæ pr. Leutschau Hungariæ (Greschik).

21. **Phoma Pruni-lusitanicæ** Cooke in Grevillea XIII, p. 93. — Gre- 5104
garia; peritheciis subglobosis, ad extremitatem ramulorum collectis, cuticulam vix decoloratam, ostiolis minutis perforatam, elevantibus; sporulis fusiformibus, binucleatis, hyalinis, 10 ≃ 4.

Hab. in ramulis Pruni lusitanicæ, Kew Britanniæ.

22. **Phoma Prunorum** Cooke in Grevillea XIII, p. 92. — Dense 5105
gregaria, in ramulis minoribus, cortice elevato, non decolorato, longitudinaliter fisso tecta; peritheciis subglobosis, atris mediæ, magnitudinis; sporulis late lanceolatis utrinque attenuatis, binucleatis, hyalinis, 10 × 4,5.

Hab. in ramulis emortuis Pruni Lauro-cerasi, Kew Brit.

23. **Phoma cerasina** Cooke in Grevillea XIV, p. 80. — Epiphylla; 5106
peritheciis punctiformibus, densissime gregariis, semiimmersis, atris, nitidis, poro pertusis; sporulis subcylindricis, utrinque rotundatis, rectis, enucleatis, hyalinis, 15–16 × 3,5.

Hab. in foliis emortuis Pruni Lauro-cerasi, Aiken S. Carol. (Ravenel).

24. **Phoma virginiana** Ell. et Halsted Journ. Myc. 1888, p. 8. — 5107
Maculis amphigenis, magnis, 0,5–1 cm. lat., rotundis, subindefinitis, supra rubiginoso-brunneis, subtus saturatius coloratis; peritheciis hypophyllis, minutis, copiosis, erumpenti-superficialibus; sporulis oblongo-cylindraceis, 5–7 × 1,5.

Hab. in foliis Pruni virginianæ, Ames, Jowa Amer. bor.

25. **Phoma Pruni** Peck in 38 Rep. St. Mus. pag. 95. — Peritheciis 5108
minutis, vix prominulis, subconicis, primum epidermide tectis, demum erumpentibus, atris; sporulis oblongo-ellipticis vel subfusiformibus, binucleatis, 8-10 × 3–4; hyalinis; basidiis longitudinem sporularum æquantibus.

Hab. in ramis emortuis Pruni virginianæ in Amer. bor.

26. **Phoma Armeniacæ** Thuem. Pilze d. Aprik. pag. 3. — Peritheciis 5109
sat numerosis, fere globulosis, semiemergentibus, nigris, mediis, contextu parenchymatico, fuligineo, in macula orbiculata v. irregulari, arescendo candida, concava, indurata, anguste dein latius rufo- v. ochraceo-brunneo-marginata; sporulis ovalibus v. breve ellipsoideis, eguttatis, subhyalinis v. dilute chlorinis, 2-3 × 0,9-1,4.

Hab. in fructibus submaturis Pruni armeniacæ in Austria infer. — Fructibus vere noxia.

27. **Phoma Chænomeles** Brun. Champ. env. Saint. p. 337. — Perithe- 5110
ciis numerosis, sparsis v. gregariis, dein erumpentibus, globoso-depressis, nigris, pertusis; sporulis fusoideis, 2-guttatis, 10–12 × 3-3,5, hyalinis.

Hab. in caulibus emortuis Chænomeles japonicæ, Pons pr. Saintes Galliæ.

28. **Phoma Amelanchieris** Cooke in Grevillea XIII, p. 93. — Subgre- 5111

garia, corticola; peritheciis cortice immersis, cuticulam elevantibus et rumpentibus, globosis, atris, mediæ magnitudinis; sporulis subfusiformibus, obtusis, binucleatis, 8 = 2,5-3; basidiis tenuibus, curvis; sporulis triplo longioribus,

Hab. in ramulis Amelanchieris, Kew Britanniæ.

29. **Phoma spiræina** Passer. Diagn. F. N. IV, n. 72. — Peritheciis 5112
crebre sparsis, epidermide tectis, atris, globoso-depressis; ostiolo vix aperto; contextu minute celluloso, fuligineo; sporulis ellipticis, 5 = 2,5 eguttatis, hyalinis; basidiis non visis.

Hab. in ramulo sicco Spirææ sorbifoliæ, Parma Ital. bor.

30. **Phoma opulifolia** Cooke in Grevillea XIV, p. 2. — Gregaria; 5113
peritheciis punctiformibus depresse globosis, cuticula non decolorata, leniter elevata tectis; sporulis anguste lanceolatis, continuis, binucleatis, 10 = 2,5; basidiiis brevibus.

Hab. in ramulis Spirææ opulifoliæ, Kew Brit. — Nonnullis notis a *Ph. Sorbariæ* differt.

31. **Phoma aromatica** Cooke in Grevillea XIV, p. 4. — Peritheciis 5114
gregariis, cuticula leniter convexa tectis, depressis, minutis, leniter papillatis; sporulis sublanceolatis, continuis, binucleatis, hyalinis, 8-10 = 3-3,5; basidiis brevibus.

Hab. in ramulis Calycanthi occidentalis, Kew Britanniæ.

32. **Phoma viminalis** Cooke et Mass. Grev. XVI, p. 75. — Epiphyl- 5115
la; peritheciis immersis, erumpentibus, atris, subglobosis, perforatis; sporulis minutis, hyalinis, continuis, ellipsoideis, 3-4 = $1^1/_2$-2.

Hab. in foliis Eucalypti viminalis, Melbourne Australiæ (Reades).

33. **Phoma Barringtoniæ** Cooke et Mass. in Grev. XVII, pag. 79. — 5116
Epiphylla, maculis magnis, irregularibus, glaucis insidens; peritheciis convexis, papillatis, subgregariis, nigris, cuticula tenui, nitente tectis; sporulis fusoideo-ellipsoideis, utrinque 1-guttatis, continuis, hyalinis, 13-15 = 4-5.

Hab. in foliis vivis Barringtoniæ speciosæ, Kew Britanniæ.

34. **Phoma brunneo-tincta** B. et C. in Grev. XVII, p. 42, Syll. III, 5117
p. 152. — Peritheciis semiimmersis, in maculas brunneolas v. nigrescentes gregariis, papillatis, 0,5-1 mm. diam., subnitentibus; sporulis rectis vel curvis, hyalinis, utrinque plus minus rotundatis, interdum guttulatis, 14-16 = 3-4; basidiis subvalidis, 35-40 μ. long.

Hab. in pericarpio Æsculi, Kew Britanniæ.

35. **Phoma Clintonii** Peck 39 Rep. p. 45. — Peritheciis numerosis, ligno immersis, oblongis v. subhysteriformibus, nigris; sporulis oblongo-ovatis, hyalinis, 10-11,25 ≃ 4; basidiis gracilibus. 5118

Hab. in ligno Æsculi Hippocastani decorticato, Albany Amer. bor.

36. **Phoma æsculana** Sacc., *Phoma Hippocastani* Pass. in Brun Miscell. mycol. p. 15, nec Arcang. — Peritheciis tectis, dein erumpentibus, sparsis v. gregariis, globosis v. subglobosis, nigro-brunneis, papillosis; sporulis subnavicularibus, hyalinis, utrinque guttatis, 7-8 ≃ 2,5; basidiis elongatis, filiformibus, curvis v. sæpe hamatis, 20-45 ≃ 1-5. 5119

Hab. in ramis junioribus emortuis Æsculi Hippocastani, Saintes Galliæ.

37. **Phoma Hippocastani** Arcang. Erb. critt. it. II, n. 1289. — Tuberculis (peritheciis?) depressis, nigris v. cortice ramulorum nidulantibus, sat confertis, umbone longiusculo conspicue prominulis; sporulis oblongis, 8-9 ≃ 2-5, hyalinis, guttulas seu granula minima vix conspicua foventibus. 5120

Hab. in cortice ramulorum emortuorum Æsculi Hippocastani in Horto bot. Pisa Ital. mediæ (Arcangeli).

38. **Phoma sambucicola** Karst. Hedw. 1887, pag. 126, Fragm. myc. XXII, p. 3. — Peritheciis sparsis v. seriatim confluentibus, semiimmersis, inter fibras ligni nidulantibus, conoideis v. oblongatis, poro pertusis, atris, 0,3 mm. lat.; sporulis ellipsoideo-sphæroideis, rectis, 3-5 ≃ 2-3. 5121

Hab. in ligno nudato vetusto Sambuci racemosæ in regione Aboënsi Fenniæ. — An potius *Aposphæria?*

39. **Phoma Sambuci** Pass. in Journ. hist. Nat. Bord. 1885, pag. 135, Brun. List. Sphær. p. 10. — Peritheciis approximatis, punctiformibus, parvis, nigris; sporulis lineari-lanceolatis, enucleatis, hyalinis, 10 ≃ 1,5-2. 5122

Hab. in ramis decorticatis Sambuci nigræ, Saintes Galliæ.

40. **Phoma Beckhausii** Cooke in Grevillea XIII, p. 91. — Peritheciis subglobosis, sparsis, cortice leniter elevata tectis, indistinctis; sporulis sublanceolatis, continuis, sæpe binucleatis, 8-10 ≃ 3. 5123

Hab. in ramulis Viburni Lantanæ, socia *Diaporthe Beckkausii*, Dartford et Kew Britanniæ.

41. **Phoma lirelliformis** Sacc. Syll. III, p. 87 — Var. **Viburni-Opuli** Brun. Liste Sphærops. p. 11. — Sporulis elongato-oblongis, subfusoideis, 8 ≃ 2-3, utrinque guttuligeris. In caulibus emortuis de- 5124

corticatisque Viburni Opuli, Saintes Galliæ. — Var. **Weigeliæ roseæ** Br. l. c. — Sporulis ovoideo-oblongis, biguttulatis, 8 × 3; basidiis duplo longioribus. In ramis emortuis decorticatisque Weigeliæ roseæ, Saintes Galliæ. — Var. **Tini** Brunaud in Rev. Myc. 1886, pag. 140. — Sporulis oblongis, 8 × 2,5-3, biguttulatis; basidiis 15-16 × 2.

Hab. in ramis emortuis decorticatisque Viburni Tini, V. Opuli et Wergeliæ Saintes Galliæ.

42. **Phoma oblongata** Briard et Hariot Rev. Myc. 1890, n. 47. — 5125
Peritheciis innatis, nigris, minutis, breviter seriatis, lirelliformibus, trans epidermidem atratam visibilibus; sporulis ovato-oblongis, obtusis, hyalinis, 2-guttatis.

Hab. in ramulis siccis et decorticatis Loniceræ Caprifolii, Méry-sur-Seine Galliæ (P. Hariot). — *Ph. crypticæ* affinis sed lignicola nec corticola et peritheciorum forma.

43. **Phoma consocia** Bomm. Rouss. Sacc. Contr. Myc. Belg. IV, p. 77. 5126
— Peritheciis erumpentibus, subglobosis; sporulis ellipsoideis vel ovalibus, acutatis, 2-guttatis, 6-8 × 2; basidiis uncinatis.

Hab. in ramulis Hippophaës rhamnoidis, Knocke Belgii. — Socia adest *Diaporthe Hippophaës*, cujus hæc *Phoma* videtur st. spermogonicus.

44. **Phoma viventis** Cooke in Grevillea XIV, pag. 2. — Gregaria; 5127
peritheciis punctiformibus vel leniter elongatis, minutis, atris, cuticula incolori, demum longitudinaliter fissa tectis; sporulis subfusiformibus, utrinque obtusis, enucleatis, hyalinis, 6-7 × 2,5.

Hab. in ramulis vivis Loniceræ, Kew Britanniæ.

45. **Phoma baccicola** Rich. Cat. Champ. Marn. p. 546. — Perithe- 5128
ciis in areis atratis sitis, sparsis, hemisphæricis, ostiolo amplo; sporulis ellipsoideis, 2-guttulatis, in globulum exsilientibus; basidiis longiusculis rectis.

Hab. in baccis vetustate atratis Symphoricarpi, St.-Amand Galliæ.

46. **Phoma cladophila** Passer. Diagn. F. N. V, n. 27. — Peritheciis 5129
crebre sparsis, minutis, tectis, fuscis; sporulis cylindricis, hyalinis, non guttulatis, 8-10 × 2-2,5; basidiis filiformibus, rectis, 20-25 μ. long.

Hab. in ramulis emortuis Elæagni reflexæ in horto botanico parmensi Ital. bor. — A *Phoma Elæagni*, præter situm, differt sporulis angustioribus non guttulatis et basidiis rectis.

47. **Phoma elæagnella** Cooke in Grevillea XIV, p. 4. — Sparsa vel 5130

subgregaria, minuta, cuticula convexa tecta; peritheciis depresse globosis, atris; sporulis ovoideis, profusis, continuis, hyalinis, enucleatis, 5 ≃ 2,5; basidiis indistinctis.

Hab. in ramis Elæagni, Kew Britanniæ.

48. **Phoma fallens** Sacc. sp. nov. — Peritheciis globoso-inæqualibus, subinde fere botryoideis, confertis, tectis, mox erumpenti-superficialibus, in maculis arescendo pallentibus fragilibus sitis, nigris, varie breve papillatis, 0,3-0,7 mm. diam., contextu parenchymatico, atro-fuligineo, solidiusculo; sporulis subsessilibus, ovato-oblongis, utrinque præcipue apice rotundatis, 7-9 ≈ 3-4, hyalinis, eguttatis. 5131

Hab. in fructibus adhuc vivis Oleæ europeæ prope Empoli Etruriæ (U. Martelli). — Species anceps, ob maculas ad *Phyllostictam*, ob perithecia subbotryoidea ad *Dothiorellam* nutans.

49. **Phoma Oleæ** (Cav.) Sacc. *Plenodomus* Cavara App. Pat. veg. p. 13, t. VI, f. 17-18. — Maculis orbicularibus, induratis, excavatis; peritheciis globosis immersis, demum erumpentibus, 180-200 μ. diam., intus carnoso-cellulosis (?), flavis; sporulis ellipticis, hyalinis, utrinque obtusis, 4,5 ≃ 2-3,5. 5132

Hab. in fructibus Oleæ europææ, Pegli Ital. bor. — Ex icone potius *Phomæ* species.

50. **Phoma incompta** Sacc. et Mart. sp. n. — Maculis subcircularibus rubescentibus; peritheciis lenticulari-oblongis, sæpe irregularibus, 60-120 μ. lat., poro subrimoso pertusis, subcutaneo-erumpentibus, atris; sporulis oblongis, minutis, 3 ≈ 1, hyalinis, coacervatis chlorinis, eguttulatis; basidiis dense stipatis bacillaribus, 6-8 ≃ 1-2, e strato proligero olivaceo oriundis. 5133

Hab. in drupis adhuc vivis Oleæ europææ pr. Firenze.

51. **Phoma ramulicola** Cel. Mic. Montp. p. 14 — Peritheciis sparsis, epidermide tectis, globoso-depressis, nigris, 300 μ. diam.; sporulis minutissimis, 3-4 ≃ 0,5-2, immersis, hyalinis; basidiis non visis. 5134

Hab. in ramulis Oleæ europææ decorticatis, Montpellier Galliæ.

52. **Phoma Chionanthi** Brun. Suppl. Sphæroid. p. 1. — Peritheciis sparsis vel approximatis, minutis, tectis dein erumpentibus, globosis, nigris; sporulis oblongis, 7-8 ≃ 2,5-3, hyalinis, 2-guttatis. 5135

Hab. in ramis emortuis Chionanthi virginicæ, Saintes Galliæ. — Spermogonia *Diaporthes Chionanthi*.

53. **Phoma Jasmini** Cooke in Grevillea XVI, pag. 2. — Peritheciis sparsis, cuticula tectis, prominentibus, atris, subglobosis, *Phomæ domesticæ* latioribus et magis prominulis; sporulis subfusiformibus, binucleatis, 9-10 ≃ 3. 5136

Hab. in ramis Jasmini officinalis, Kew Brit. — Sæpe simul occurrit *Ph. domestica.*

54. **Phoma Friesii** Brun. Champ. Saint. p. 337. — Peritheciis remotis tectis, dein erumpentibus, a cortice dejecto liberatis, ligno immersis, conicis vel subglobosis, nigris, nitentibus; sporulis subovoideis, minutis, hyalinis, continuis, 4,5-6 = 3-4. 5137

Hab. ad ramos emortuos Ligustri ovalifolii, sociâ *Melomastiâ Friesii*, Saintes Galliæ.

55. **Phoma depressa** (Lév.) Sacc. Syll. III, p. 82. — Var. **fructicola** Brun. Liste Sphærops. p. 11. — Sporulis 10-12 = 3. 5138

Hab. in fructibus exsiccatis Syringæ vulgaris, Saintes Galliæ.

56. **Phoma planiuscula** Karst. Hedw. 1888, pag. 104. — Peritheciis gregariis, cortici innatis, per peridermium fissum emergentibus, rotundato-applanatis, glabris, atris, 0,2 mm. diam.; sporulis ellipsoideis vel subsphæroideis, hyalinis, 2-2,5 = 1, v. 1,5-2,5 µ. diam. 5139

Hab. in ramis emortuis Syringæ vulgaris in sacellania Merimasku Fenniæ. — Mixta cum *Teichosporella planiuscula*, cujus spermogonia verisimiliter sistit.

57. **Phoma scobina** Cooke in Grevillea XIII, pag. 92. — Peritheciis subcutaneis, gregariis, ad nodos congestis, cuticulam perforantibus, subglobosis, atris, depressis; sporulis fusoideis vel clavatis, subinde binucleatis, hyalinis, 10-12 = 3-3,5; basidiis rectis. 5140

Hab. in ramulis Fraxini excelsioris, socia *Diaporthe scobina*, cujus est spermogonium, Kew, Darenth, Highgate Brit.

58. **Phoma divergens** Oud. Contr. Mycol. XIII, p. 36, t. 8, f. 23. — Peritheciis minime ad ramorum nodos congestis, infra periderma occultatis, dein ostiolo pertusis; sporulis extra perithecia cirri in modum expulsis, ovoideis vel breviter oblongatis, 5-7 = 2,5, continuis, eguttatis. 5141

Hab. in ramis Fraxini excelsioris, Zorgvlied prope Haye Nederlandiæ. — A *Ph. controversa* et *Ph. minima* discedit sporulis eguttatis.

59. **Phoma infossa** Ell. et Ev. Journ. Myc. 1888, p. 102. — Peritheciis sparsis, cortice immersis, majusculis; ostiolo obtuse conico, erumpente; sporulis cylindraceis, hyalinis, subincurvis, 5-6 = 1¼, utrinque obtusis. 5142

Hab. in ramis emortuis Fraxini Syracuse, N. Y. Amer. bor. (Underwood et Cooke). — An satus secundarius *Valsæ?*

60. **Phoma Forsythiæ** Cooke in Grevillea XIII, p. 92. — Laxe gre- 5143

garia; peritheciis punctiformibus, subglobosis, epidermide vix elevata, demum ostiolo minuto fissa, tectis; sporulis ellipticis, minutis, enucleatis, hyalinis, 3-5 ≈ 2; basidiis brevibus.

Hab. in ramis Forsythiæ, Kew Britanniæ et F. viridissimæ, Saintes Galliæ. — Species homonyma cl. Brunaudii (Rev. Myc. 1886, pag. 140), leviter differt sporulis paullo longioribus, nempe 7-8 ≈ 2-2,5.

61. **Phoma Celottii** Sacc. *Phoma Philadelphi* Cel. Micet. Montpell. p. 13 (1887). — Peritheciis subgregariis, erumpentibus, globoso-ellipsoideis, $^1/_3$ mm. diam.; sporulis minimis, *Bacterio Thermo* similibus, 2-3 ≈ 1, hyalinis; basidiis cæspitosis, 10-12 μ. long. 5144

Hab. in ramis corticatis Philadelphi grandiflori, Montpellier Galliæ. — A *Ph. Philadelphi* differt sporulis minoribus.

62. **Phoma Philadelphi** Cooke in Grevillea XIII, p. 93 (1885). — Peritheciis minutis, gregariis, seriatim dispositis, epidermide vix elevata tectis, cortice immersis, depressis, nigris, pertusis; sporulis cylindricis, utrinque obtusis, enucleatis, 12 ≈ 2,5, hyalinis. 5145

Hab. in ramulis Philadelphi, Kew Britanniæ. — Habitu fructificationeque a *Ph. Landeghemiæ*, quæ simul occurrit, distincta.

63. **Phoma Buddleiæ** Cooke in Grevillea XVI, p. 48 (1887). — Peritheciis sparsis, minutis, epidermide elevata demumque fissa tectis; sporulis ovoideis, hyalinis, 6 ≈ 4. 5146

Hab. in ramis Buddleiæ globosæ, Kew Britanniæ.

64. **Phoma Lyndleyana** Sacc. *Phoma Buddleiæ* Brun. Champ. nouv. VI, p. 2 (1888). — Peritheciis tectis, dein erumpentibus, globoso-compressis, minutis, nigris, nitidulis; sporulis oblongis, hyalinis, 6-8 ≈ 2-5. 5147

Hab. in ramis emortuis Buddleiæ Lindleyanæ cultæ, Saintes Galliæ.

65. **Phoma Rhododendri** Cooke in Grevillea XIII, p. 93. — Subgregaria, in ramulis tenuioribus dealbatis, minuta, epidermide elevata sed vix decolorata tecta; peritheciis subglobosis, atris; sporulis minutis, ovoideis, hyalinis, enucleatis, 4-5 ≈ 2. 5148

Hab. in ramulis Rhododendri, Kew Britanniæ.

66. **Phoma Rhodoræ** Cooke in Grevillea XIV, p. 3. — Maculis apicalibus vel marginalibus latis, irregularibus, brunneis; peritheciis gregariis, minutis, punctiformibus, atris, immersis, oculo nudo vix visibilibus; sporulis numerosis, minutis subellipticis, hyalinis, 4-5 ≈ 2; basidiis brevibus. 5149

Hab. in foliis vivis Rhododendri, Kew Britanniæ.

67. **Phoma Andrachnes** Lév. Voy. p. 110, t. VI, 3, Sacc. Syll. III, p. 169. — Epi- et hypophylla, unilocularis; peritheciis globosis, adnatis, ostiolis prominulis, pertusis, intus nigris; sporulis minimis, simplicibus, oblongo linearibus. 5150

Hab. in foliis emortuis Arbuti Andrachnes, Orianda Tauriæ imp. Rossici. — Var. **orbicularis**: peritheciis in annulum dispositis.

68. **Phoma andromedina** Karst. Hedw. 1888. — Peritheciis sparsis, emergentibus, epidermide radiatim fissa tectis, rotundatis, atris, vix 0,2 mm. diam.; sporulis ellipsoideis vel oblongatis, rectis eguttulatis, hyalinis, 4-6 × 2. 5151

Hab. in foliis languidis Andromedæ polifoliæ pr. pagum Sipilä par. Tammela Fenniæ.

69. **Phoma Lentisci** Passer. Diagn. F. N. IV, n. 69. — Peritheciis amphigenis, sparsis, epidermidem sublevantibus, tandem erumpentibus, atris; sporulis subfusiformibus, ad polos obscure nucleatis, 5-7 ≈ 3,5, basidiis tenuibus, rectis, subduplo longioribus fultis. 5152

Hab. in foliis siccis Pistaciæ Lentisci in horto botanico parmensi Ital. bor.

70. **Phoma Sumacis** Brun. Liste Sphærops. p. 11. — Peritheciis globulosis, atris, primo tectis, dein erumpentibus, perforatis, minutis; sporulis ovoideis, hyalinis, minutis, 2,5-3 ≈ 2. 5153

Hab. in caulibus emortuis Rhois glabræ, Pons Galliæ. — Affinis *Ph. Ebuli* et verisimiliter ut hujus varietas habenda.

71. **Phoma Lauri** Pass. et Brun Mat. Myc. Saint. p. 21. — Peritheciis primo tectis, seriatis, adproximatis, globulosis v. subglobulosis, nigris; sporulis cylindraceis, utrinque rotundatis, minute guttulatis, hyalinis, rectis, 12,5 ≈ 2,5; basidiis filiformibus, 15–20 ≈ 1,2. 5154

Hab. ad caules emortuos Lauri nobilis, Saintes Galliæ.

72. **Phoma insularis** Cooke et Mass. in Grev. XVI, p. 6. — Peritheciis gregariis, plerumque maculis atris linea nigra circumscriptis insidentibus, subcuticularibus, dein erumpentibus; sporulis anguste ellipsoideis, utrinque 1-guttatis, continuis, hyalinis, 10 ≈ 3. 5155

Hab. in ramis Aucubæ japonicæ, Kew Britanniæ.

73. **Phoma crustosa** Sacc. Bomm. et Rouss. Fl. Myc. Belg. II, p. 28. — Peritheciis numerosis, punctiformibus, epidermide persistente, nigrificata tectis, poro minusculo pertusis; sporulis sæpe irregularibus, ovato-acuminatis, hyalinis, 2-4-(sæpe 2-)guttatis, 7-9 ≈ 3,5, interdum uno apice acuto, altero rotundato; basidiis fasciculatis, apice attenuatis. 5156

Hab. in trunco et ramis Ilicis Aquifolii, Ixelles Belgii. Verisimiliter spermogonium *Diaporthes crustosæ*.

74. **Phoma ilicina** Ell. et Anders. Bot. Gaz. 1891, p. 46. — Amphigena; peritheciis innatis, cuticulam pustulatim elevantibus, globosis, minutis, 0,2 mm. diam., apice suberumpentibus; sporulis fusoideo-oblongis, hyalinis, binucleatis, 6–8 ≃ 2-3; basidiis sporulam subæquantibus. 5157

Hab. in foliis emortuis Ilicis, Washington Amer. bor.

75. **Phoma Celastrinæ** Cooke in Grevill. XIII, pag. 92. — Gregaria v. aggregata; peritheciis globosis, atris, epidermide tectis eamque ostiolo punctiformi, atro, nitido perforantibus; sporulis lanceolatis, utrinque attenuatis, binucleatis, hyalinis, 13 ≃ 5, primo stipitatis. 5158

Hab. in ramulis Evonymi americani, Kew Britanniæ.

76. **Phoma arcuata** Passer. Diagn. F. N. IV, n. 39. — Peritheciis punctiformibus, atris, 125 μ. diam., ostiolo pertuso, albido, epidermidem vix sublevantibus; sporulis cylindricis, arcuatis, integris, hyalinis, 14-15 ≃ 1,3; sterigmatibus filiformibus, longiusculis. 5159

Hab. in foliis dejectis Evonymi japonici, Livorno Italiæ.

77. **Phoma Weldiana** Fairm. Contr. Myc West. N. Y. p. 50. — Peritheciis parcis, sparsis, nigris, nitentibus, parvis, ovoideis v. rotundis, 25–30 μ. diam.; sporulis oblongis, uno apice abrupte acuminatis v. utrinque rotundatis. 5160

Hab. in ligno decorticato Evonymi atropurpurei, Lyndonville, N. Y. Amer. bor.

78. **Phoma rhamnigena** Fautrey in Rev. Myc. 1890, p. 166. — Peritheciis ....; sporulis elongatis, 10-16 ≃ 1, rectis, hyalinis, continuis; basidiis brevissimis v. obsoletis. 5161

Hab. in ramis Rhamni, Précy Côte-d'Or Galliæ. — A *Phoma Robergeana* et *Ph. Staphyleæ* satis diversa dicitur.

79. **Phoma Staphyleæ** Cooke in Grevillea XIV, p. 2. — Gregaria; peritheciis punctiformibus, cuticula demum nigrescente tectis, dein prominulis, tandem liberis; sporulis ellipticis, continuis, enucleatis, 5-8 ≃ 3-4; basidiis non distinctis. 5162

Hab. in ramulis Staphyleæ pennatæ, S. trifoliatæ et S. colchicæ, Kew Britanniæ.

80. **Phoma Brunaudi** Berl. et Vogl. Add. Syll. n. 4644, *Phoma Staphyleæ* Brun. Liste Sphærops. pag. 12 (non Cooke). — Maculis stromaticis, subcircularibus v. irregularibus, nigrescentibus, linea atra, subinde distinctissima cinctis; peritheciis cortice innatis, minutis, sparsis vel vix appropinquatis, primo tectis, dein vix erum- 5163

pentibus; sporulis oblongis, rectis, 8 ≃ 2,5–3; basidiis 15–20, rectis vel hamatis.

Hab. in ramis emortuis Staphyleæ colchicæ, Saintes Galliæ. — « An diversa a *Phoma Staphyleæ* Cooke? ».

81. **Phoma cytosporella** Penz. et Sacc. Monogr. Agr. p. 361, t. XXXIII, f. 2. — Peritheciis irregularibus, congregatis v. confluentibus, cortice v. stromate immersis, haud papillatis, aterrimis; basidiis confertissimis, linearibus, continuis, 20-30 ≃ 2-2,5; sporulis oblongo-ellipsoideis, utrinque rotundatis, hyalinis, 2-guttatis, 7-9 ≃ 2,5-4. 5164

Hab. in ligno vetusto Citri vulgaris et C. Aurantii et in ramis C. Limonum, Roma, Modena. — Ad *Cytosporam* vergit.

82. **Phoma paraguayensis** Speg. F. Guar. II, n. 160. — Peritheciis minutis, e lenticulari conoideis, 70-90 μ. diam., epidermide velatis, dense congestis, plagulas atras v. cinerescentes, longe lateque per matricem serpentes efformantibus, tenui membranaceis, parenchymatico-fuligineis, glabris, levibus, ostiolo impresso, latiusculo, 25 μ. diam., pertusis; sporulis ellipticis, utrinque acutiusculis, 15-17 ≃ 5–6, rectis v. falcatis, continuis, hyalinis. 5165

Hab. ad ramulos languidos Citri Aurantii in cultis pr. Guarapì Amer. bor. — Potius *Macrophoma*.

83. **Phoma obtusula** Sacc. et Br. Misc. Myc. II, p. 24. — Peritheciis hinc inde gregariis, erumpentibus, globulosis, obtusulis, ¼ mm. diam., atris, nitidulis, vix papillatis; sporulis ovato-oblongis, utrinque acutiusculis, 8-12 ≃ 4, hyalinis; basidiis brevibus. 5166

Hab. in ramulis corticatis Aceris campestris, Troyes Galliæ (Briard).

84. **Phoma Platanoidis** Cooke in Grevillea XIII, p. 93. — Peritheciis subcutaneis, erumpentibus, gregariis epidermidem rumpentibus et ramulum rugosum reddentibus; sporulis fusiformibus, acutis, binucleatis, hyalinis, 7-8 ≃ 3; basidiis rectis, sporulâ duplo vel amplius longis. 5167

Hab. in ramulis Aceris Pseudoplatani, Kew Brit. — Adest simul *Calospora Platanoidis*, cujus verisimiliter est spermogonium.

85. **Phoma negundinicola** Thuem. M. U. n. 2090. — Peritheciis subgregariis, minutis, punctiformibus, hemisphærico-semiimmersis, atris, ostiolo prominentibus; sporulis numerosissimis, cylindraceis, rectis v. raro leviter curvis, utrinque rotundatis, sæpius 2-guttulatis, hyalinis, 3,5–4,5 ≃ 1,5. 5168

Hab. in pedunculis emortuis Negundinis fraxinifolii, Newfield N. J. Amer. bor. (Ellis).

86. **Phoma globigera** Cooke et Mass. Grev. XVII, p. 75. — Perithe- 5169
ciis gregariis, numerosis, punctiformibus, atris, sursum nudis, convexis; sporulis globosis, continuis, hyalinis, 5-6 μ. diam.

Hab. in sarmentis Vitis viniferæ in America? (Mende).

87. **Phoma Viniferæ** Cooke in Grevillea XIII, p. 92, *Phoma viticola* Sacc. Syll. III, p. 79, non *Phoma viticola* (Cooke) Sacc. Syll. III, pag. 110. Occurrit quoque in sarmentis Vitis viniferæ, Kew Britanniæ.

88. **Phoma cordifolia** Brun. Champ. Saint. VII, p. 4. — Peritheciis 5170
remotis, secus ligni fibras seriatim dispositis, siccis depressis, nigris, per epidermidem nigrificatam sæpe irregulariter laceratam erumpentibus; sporulis oblongo-elongatis, rectis, 7-9 ≃ 2,5-3, continuis, 2-guttatis.

Hab. in sarmentis emortuis Vitis cordifoliæ, Rochefort Galliæ.

89. **Phoma lenticularis** Cavara Bitt. Rot, p. 24, t. V, f. 4. — Peri- 5171
theciis gregariis interdum confluentibus, lenticularibus, epidermide tectis, 180-220 μ. diam., poro pertusis; sporulis ellipsoideo-cylindraceis, utrinque rotundatis, typice 2-guttatis, hyalinis, 7,5-8,5 ≃ 3-5,5; basidiis filiformibus, 20-22 μ. long.

Hab. in baccis Vitis viniferæ in collibus Stradella, Codevilla Ital. bor. — « *Phoma uvicola* B. et C., Syll. III, pag. 149, sec. exempl. typ. in Rav. F. Carol. n. 17 et Thüm. M. U. n. 1386, præbet sporulas ovato-oblongas, 2-guttatas, 6 ≃ 2,5 brevissime pedicellatas, hinc omnino differt a *Coniothyrio Diplodiella*. E contra *Ph. uvicola* var. *Labruscæ* Thüm. in Ellis N. A. F. n. 26, præbet sporulas multo majores, utrinque acutulas, 10-12 ≃ 4-5, 1-2-guttatas, demum dilute fuligineas, pedicellis 12-14 ≃ 2 suffultas, hinc ad *Conioth. Diplodellam* valde accedit et ut ejus var. *oxysporum* sumenda. Observandum quod vera *Phoma uvicola* var. *Labruscæ* Thüm. Pilz. d. Weinst. pag. 16, ob sporulas «semper subglobosas, 7-8 μ. diam.» sit res omnino diversa.

90. **Phoma ampelocarpa** Pass. N. G. B. It. 1890, n. 1, Rev. Myc. 5172
1890, p. 86. — Peritheciis in centro maculæ discoideæ brunneæ gregariis, erumpentibus, cuticula vix fissa cinerescente tectis; sporulis oblongo-ellipsoideis, enucleatis, hyalinis, 7,5 ≃ 2,5.

Hab. in baccis maturis Vitis *Moscatello di Spagna* dictæ in Ital. bor.

91. **Phoma Farlowiana** Viala et Sauv. in Journ. Bot. 1891, pag. 363, t. V, f. 10. — Peritheciis immersis, ostiolo vix erumpente, ovoideis 132 ≃ 110, contextu nigricante; basidiis filiformibus, brevissimis; sporulis oblongo-ovatis, utrinque obtuse attenuatis, 21 ≃ 5-6, hyalinis, vix granulosis. 5173

Hab. in foliis Vitis Labruscæ et ripariæ in America fœderata et Canada. — Potius *Macrophoma.*

92. **Phoma Cissi** Rich. Cat. Champ. Marn. p. 546. — Peritheciis tectis, nigris, hemisphæricis, sparsis, epidermidem frustulatim elevantibus et findentibus; sporulis oblongis, 6 μ. long., utrinque subincrassatis, biguttatis; basidiis longis, rectis. 5174

Hab. in sarmentis Cissi, St. Amand Galliæ.

93. **Phoma insularis** Speg. F. Fueg. n. 282. — Maculis nullis; peritheciis sparsis, parenchymate immersis, epidermide tectis, dein sæpius laciniatim vel suboperculatim erumpentibus, globulosis, 130-180 μ. diam., atris, crasse coriaceo-membranaceis, ostiolo non vel vix papillulato, contextu indistincto; sporulis ellipticis v. ovoideo-sublanceolatis, sæpius utrinque longiuscule acutato-obtusatis, non v. medio 1-guttulatis, 5-7 ≃ 1,5, hyalinis, sterigmatibus filiformibus, 12-15 ≃ 1. 5175

Hab. ad folia dejecta Berberidis ilicifoliæ in Staten island Fuegiæ.

94. **Phoma cistina** Cooke in Grevillea XIV, pag. 3. — Dense gregaria, subcutanea, subinde erumpens; peritheciis subglobosis, atris, siccitate collapsis; ostiolo interdum brevi, cuticulam perforante, subinde duplo v. triplo perithecii diametro longiore, flexuoso; sporulis subcylindraceis vel fusoideis, utrinque obtusis, sæpe minute binucleatis, hyalinis, 6-7 ≃ 2,5; basidiis circiter sporulâ duplo longioribus. 5176

Hab. in ramulis Cisti laurifolii, Kew Britanniæ.

95. **Phoma Cisti** Brun. Fragm. myc. II, p. 8. — Peritheciis numerosis, subgregariis, minutissimis, nigris, vix erumpentibus; sporulis subovoideis, hyalinis, minutissimis, 3 μ. long., continuis. 5177

Hab. in ramis exsiccatis Cisti salvifolii, Fouras pr. Saintes Galliæ.

96. **Phoma lirelliformis** Sacc. Syll. III, p. 87. — Form. **Clerodendri** Brun. Fragm. Myc. II, p. 8. — Sporulis 2-guttatis, 8 ≃ 3; basidiis 20 μ. long. 5178

Hab. in ramis emortuis Clerodendri fœtidi, Rochefort Galliæ.

97. **Phoma? hysterina** Karst. et Roum. Rev. Myc. 1890, n. 47. — Peritheciis laxe gregariis, subcutaneis, ovalibus, plano-convexis, parte innata subindistincta, atris, minutis; ostiolo papillato, erumpente, planiusculo, pallidiore; sporulis ellipsoideis v. ovoideo-elongatis, guttulatis, 6-10 ≃ 2,5-3,5. 5179

Hab. ad ramulos exsiccatos Capparidis spinosæ in St.-Caprais pr. Tolosa Galliæ (Marie de Calvinhac). — Typum novi generis forte sistit.

98. **Phoma Capparidis** Passer. Diagn. F. N. IV, n. 67. — Peritheciis crebre sparsis, epidermide tectis, lenticularibus v. ovalibus, ostiolo non perspicuo; sporidiis oblongis, elliptico-lanceolatis, ad polos guttatis 10 ≃ 2,5; basidiis filiformibus, tenuibus, 20-25 μ. long. 5180

Hab. in ramis siccis Capparidis spinosæ, Parma Ital. bor. — A *Ph. herbarum* f. *Capparidis* sporulis et basidiis longioribus diversa.

99. **Phoma capparidina** Passer. Diagn. F. N. IV, n. 68. — Peritheciis crebre sparsis, epidermide nigricante tectis, crassitie varia; sporulis oblongis, ad polos non v. obscure nucleatis, tandem pulvere albo ejectis, 5 ≃ $1^1/_4$. 5181

Hab. in ramis Capparidis spinosæ, Parma Ital. bor.

100. **Phoma Winterii** Speg. F. Fueg. n. 385. — Peritheciis hinc inde 3-5-aggregatis, globulosis, 150-180 μ. diam., cortice immersis, peridermio velatis, atris, glabris, coriaceo-subcarbonaceis, ostiolo impresso perforatis, contextu indistincto, opaco donatis; sporulis cylindraceis, utrinque obtusis, 3-5 ≃ 0,8-1, rectis v. curvulis, hyalinis. 5182

Hab. ad corticem ramorum emortuorum Drymidis Winterii in Staten island Fuegiæ.

101. **Phoma Drymidis** Speg. F. Fueg. n. 378. — Maculis nullis v. vix pallescentibus, epiphyllis, indeterminatis; peritheciis sparsis immersis, primo tectis, dein erumpenti-prominulis, globulosis, 110-120 μ. diam., subastomis, coriaceis, atris, glabris, contextu subindistincto, olivaceo; sporulis lanceolatis v. fusoideo-ovatis, superne acutissimis, inferne obtusiusculis, 9-11 ≃ 2,5-3, eguttulatis, hyalinis; sterigmatibus longiusculis, 10-15 ≃ 1-1,5, simplicibus. 5183

Hab. ad folia languida Drymidis Winterii in Staten island Fuegiæ.

102. **Phoma incommoda** Trail in Trans. Crypt. Scot. p. 43. — Peritheciis punctiformibus, atris, prominulis, gregariis, a folii contextu imperfecte disjunctis, ostiolo subpapillato; sporulis elongato-ellipsoideis, 8-10 ≃ 2-2,5, hyalinis; basidiis dense stipatis, 20 ≃ 2. 5184

Hab. in foliis emortuis Myricæ Gales pr. Loch Awe Scotiæ occid.

103. **Phoma Myricæ** Karst. in Hedwigia 1884, pag. 6. — Peritheciis 5185
in cæspites, per peridermium erumpentes aggregatis, subsphæroideis, pressione mutua varie compressis difformibusve, glabris, atris, 0,4 mm. diam.; sporulis sphæroideis vel ellipsoideo-sphæroideis, hyalinis vel chlorino-hyalinis, circiter 2 μ. diam. vel 3 = 2.

Hab. in ramis Myricæ Gales emortuis prope Vasa Fenniæ.

104. **Phoma Aloysiæ** Passer. Diagn. F. N. IV, n. 41. — Peritheciis 5186
sparsis, minutis, globoso-conicis, tectis, ostiolo acuto, vix erumpente, atris; contextu minute celluloso, olivaceo-fusco; sporulis innumeris, bacillaribus, rectis v. leniter curvis, eguttulatis, hyalinis, 7,5-12,5 = 2; basidiis non visis.

Hab. in ramis siccis Aloysiæ citriodoræ in horto botanico parmensi Ital. bor.

105. **Phoma Viticis** Celotti Mic. Montpell. p. 15. — Peritheciis glo- 5187
bosis, superficialibus, sparsis, nigris, poro pertusis; sporulis ellipticis, hyalinis, 6-8 = 2-3; basidiis 18-20 = 2.

Hab. in ramis Viticis Agni-casti, Montpellier Galliæ.

106. **Phoma Bignoniæ** Sacc. Bomm. Rouss. Contr. Myc. Belg. III, p. 14. 5188
— Peritheciis sparsis, subcutaneis, nigris, exiguis, 0,25 mm. diam., papilla erumpente; sporulis inæqualiter ellipsoideis, subinde guttulatis, 4-6 = 2,5-3.

Hab. in ramis emortuis Tecomæ radicantis, Tervueren Belgii et Parma Ital. bor. — A *Ph. Tecomæ* sat diversa. Homonyma et posterior species cl. Passerini Diagn. F. N. IV, n. 74, a nostra non differt.

107. **Phoma tecomicola** Brun. Champ. Saint. 1887, p. 429. — Peri- 5189
theciis sparsis, tectis, dein suberumpentibus, globosis, minutis, nigris, pertusis; sporulis oblongis, hyalinis, 8 = 2,5-3, biguttatis.

Hab. in sarmentis emortuis Tecomæ grandifloræ, Saintes Galliæ.

108. **Phoma Radicantis** Cooke in Grevillea XIII, p. 32. — Caulicola; 5190
peritheciis gregariis in maculis albicantibus, minutis, punctiformibus, applanatis, cuticula subtili tectis; sporulis numerosis, ovalibus, hyalinis, 3 = 1,5; basidiis non distinctis.

Hab. in ramulis vivis Tecomæ radicantis, Kew Britanniæ.

109. **Phoma Gnidii** Brun. Suppl. Sphærioid. p. 2. — Peritheciis grega- 5191
riis, nigris, globosis, subepidermicis, erumpentibus; sporulis ovoideis v. ellipsoideo-elongatis, 2-guttatis, hyalinis, 6-7 = 2,5.

Hab. in ramulis Daphnes Gnidii, Saint-Palais-sur-mer pr. Saintes Galliæ.

110. **Phoma microsporella** Karst. et Har. Journ. Bot. 1890, p. 358. 5192
— Peritheciis sparsis, innato-erumpentibus, subsphæroideis, atris, ore sat lato orbiculari apertis, 50-75 μ. diam.; sporulis cylindraceis, rectis, hyalinis, 3-4 ≃ 0,5.

Hab. ad folia Caricæ Papayæ, Ohio Amer. bor.

111. **Phoma paraguariensis** Speg. Guar. I, p. 144. — Maculis subin- 5193
determinatis, parvulis, 1-2 mm. diam., orbiculari-irregularibus, arescenti-fuscis, parum manifestis, amphigenis, stromatibus parvulis, epiphyllis, macularum centro insidentibus, atris, glabris, rugosulis, prominulis, 2-5-locularibus, coriacellis; contextu indistincto, opaco, atro; loculis globosis v. e mutua pressione angulosis, parvulis, 120-150 μ. diam., ostiolo minuto donatis; sterigmatibus fasciculatis, filiformibus, 20 ≃ 1, hyalinis, acrogene monostichis; sporulis cylindraceis, ellipsoideis v. ovoideis, sæpe suballantoideis, 6-7 ≃ 1-2, sæpe minute 1-guttulatis et rotundatis, hyalinis.

Hab. ad folia viva Crotonis sp. in silvis prope Paraguarì Brasiliæ.

112. **Phoma Periplocæ** Brun. Champ. Saint. IV Ser., p. 8. — Peri- 5194
theciis sparsis prominulis, convexis, nigris, nitidulis, pertusis; sporulis oblongis, hyalinis, 2-guttulatis, 10-12 ≃ 3.

Hab. in foliis languidis, quæ leviter decolorantur, Periplocæ græcæ cultæ, Rochefort Galliæ.

113. **Phoma Coriariæ** Brun. Suppl. Sphærioid. pag. 1. — Peritheciis 5195
sparsis v. gregariis, epidermide subcolorata tectis, dein suberumpentibus, nigris, minutis, globosis; sporulis ovoideis, 6 ≃ 2,5, eguttatis, hyalinis.

Hab. in ramis emortuis Coriariæ myrtifoliæ, Saintes Galliæ.

114. **Phoma Barbari** Cooke in Grevillea XIV, pag. 3. — Peritheciis 5196
laxe gregariis, epidermide tectis, convexis, non erumpentibus, demum pertusis; sporulis ovoideis, binucleatis, hyalinis, 5 ≃ 3.

Hab. in ramulis Lycii barbari, Kew Britanniæ.

115. **Phoma Araliæ** Cooke et Mass. in Grev. XVI, p. 6. — Peritheciis 5197
gregariis, maculis irregularibus, nigris plerumque insidentibus, parvis, subglobosis, prominentibus, demum epidermidem perforantibus; sporulis ovoideis v. ellipsoideis, continuis, hyalinis, 8 ≃ 4.

Hab. in caulibus Araliæ spiniferæ, Kew Britanniæ.

116. **Phoma hederacea** Arc. Erb. critt. it. II, ser. n. 840. — Maculis 5198

subfuscis, 1 cm. et ultra lat., suborbicularibus; peritheciis minutis discretis, punctiformibus, nigris, subcutaneis; sporulis minutis numerosis, ellipsoideis, hyalinis, 5 ≃ 2,2.

Hab. in foliis Hederæ nondum emortuis in viridario Boboli, Firenze. — Comparanda cum *Phyll. hedericola* Dur. et Mont.

117. **Phoma peridermii** Pass. Erb. critt. it. II, n. 1186. — Peritheciis 5199
subglobosis, fuscis, peridermio immutato immersis 87-100 μ. diam., sporulis oblongis 5-7 ≃ 2-2,5, hyalinis, apicibus obscure nucleatis.

Hab. in cortice Lagerstrœmiæ indicæ in Horto bot. Parma Ital. bor. (Passerini). — A *Ph. Lagerstrœmiæ* Speg. diversa.

118. **Phoma Lagerstrœmiæ** Speg. — Syll. III, p. 93 — var. **foliicola** 5200
E. et E. Journ. Myc. 1888, p. 101. — Peritheciis amphigenis, sublenticularibus, circ. 150 μ. diam., erumpentibus; sporulis fusoideo-oblongis, 6-8 ≃ 2; basidiis gracilibus, 15-20 μ. long.

Hab. in foliis Lagerstrœmiæ indicæ, Pointe à la Hache Louisiana Amer. bor. (Langlois). — Apices foliorum emortuos, brunneos, sæpe leniter concentrice zonatos occupans.

119. **Phoma Diploglottidis** Cooke et Mass. Grev. XVII, pag. 56. — 5201
Hypophylla, gregaria; peritheciis semiimmersis, atris minutis, papillatis; sporulis arcte amygdalæformibus, binucleatis, hyalinis, 10-11 ≃ 4-5.

Hab. in foliis subemortuis Diploglottidis, Brisbane Australiæ (Bailey).

120. **Phoma Loti** Cooke in Grevillea XIV, p, 2. — Gregaria; pe 5202
ritheciis globosis, atris, tectis, cuticulam elevantibus et ostiolo prominente perforantibus; sporulis ellipticis, hyalinis, enucleatis, 5 ≃ 2; basidiis nullis vel obsoletis.

Hab. in ramulis Diospyri Loti, Kew Britanniæ.

121. **Phoma confluens** Karst. et Har, Journ. Bot. 1890, p. 358. — 5203
Peritheciis erumpenti-superficialibus, discretis v. sæpius concrescentibus, sphæroideo-applanatis, subinde vertice depressis, rugosulis, nitentibus, demum poro pertusis, 0,1 mm. v. paullo, ultra; sporulis cylindraceis, utrinque obtusissimis, rectis, utrinque 2-guttatis, hyalinis, 5-6 ≃ 2.

Hab. ad folia Haussknechtiæ, Lazistam Asiæ (Haussknecht).

122. **Phoma Muehlenbeckiæ** Cooke et Mass. XVI, p. 6. — Peritheciis 5204
minutissimis, subcuticularibus, dense gregariis atro-brunneis, membranaceis, subglobosis, papillatis; sporulis ellipsoideis, continuis, basidiis brevibus primo fultis, 3 ≃ 2.

Hab. in caulibus emortuis Muehlenbeckiæ, Kew Britanniæ

123. **Phoma Epicecidium** (Berk.) Sacc., *Sphæronema* Berk. in Hook. Kew. Gard. Miscell. I, p. 291, t. X, f. *B* (1849), Syll. III, p. 198 (nomen). — Peritheciis minutis, innatis, globoso-depressis, ore obtuse prominulo, pertuso; sporulis obovatis v. piriformibus, hyalinis. 5205

Hab. in cecidiis clavato-infundibuliformibus amphigenis ad folia Ochnaceæ cujusdem Para et Caripi Brasiliæ.

124. **Phoma Baccharidis** Brun. Champ. Saint. VII, p. 4. — Peritheciis sparsis vel gregariis, globosis, nigris, minutis, vix erumpentibus; sporulis ovoideis, hyalinis, 5-6 ≃ 2,5. 5206

Hab. in ramulis emortuis Baccharidis halimifoliæ, Fouras prope Saintes Galliæ.

125. **Phoma Fuchsiæ** Brun. Champ. env. Saint. p. 337. — Peritheciis sparsis v. gregariis, minutis, nigris, globosis, pertusis, vix erumpentibus; sporulis oblongo-elongatis, hyalinis, 2-guttatis, 10-12 ≃ 3. 5207

Hab. ad ramos emortuos Fuchsiæ coccineæ cultæ Saintes Galliæ.

126. **Phoma salicifolia** Cooke in Grev. XVI, p. 48. — Epiphylla; peritheciis minutissimis, punctiformibus, sparsis v. sæpius in cæspitulos orbiculares, parvos gregatis; sporulis subglobosis v. ovoideis, continuis, hyalinis, 6 ≃ 4. 5208

Hab. in foliis emortuis Salicis, Kew Britanniæ.

127. **Phoma glyptica** Cooke et Mass. in Grev. XV, p. 107. — Subcuticularis; peritheciis secus orbes dispositis, linea plus minus distincta cinctis, subglobosis; ostiolo epidermidem perforante; sporulis ovoideis, continuis, hyalinis, 4-5 ≃ 3; basidiis longis. 5209

Hab. in ramis Salicis, Tunbridge Wells Britanniæ. — Habitus *Valsæ glypticæ*.

128. **Phoma Colensoi** Cooke Grev. XIX, p. 3. — Peritheciis per corticem erumpentibus, gregariis vel sparsis, subglobosis, atris; sporulis ovalibus, continuis, hyalinis, 3 ≃ 2. 5210

Hab. in ramis Populi in Nova Zelandia (Colenso).

129. **Phoma urens** Ell. et Ev. Journ. Myc. 1888, p. 102. — Peritheciis subglobosis, dense gregariis, interdum pro parte confluentibus, plus minus erumpentibus, nigris, corticem interiorem nigrificantibus; sporulis oblongo-ellipsoideis, hyalinis, 6-8 ≃ 2,5-3. 5211

Hab. in ramis Populi, Middlesex Falls, Mass. Amer. bor. (Prof. L. M. Underwood).

130. **Phoma Populi** Peck 40 Rep. p. 59. — Peritheciis minutis, 75-100 μ. lat., epiphyllis, gregariis, nigris, poro lato pertusis; sporulis cylindraceis, rectis v. subincurvis, 15-20 ≃ 3. 5212

Hab. in foliis emortuis Populi tremuloidis, Elizabethtown Amer. bor.

131. **Phoma atro-cincta** Sacc. F. Rom. n. 42, fig. 5. — Peritheciis areolis exiguis circulari-ovatis atratis v. atro-limitatis innatis, in quaque areola 1-3, globulosis, $^1/_4$-$^1/_3$ mm. diam., obtuse papillatis, nigricantibus; sporulis breve fusoideis, 5 × 2, hyalinis, 2-guttulatis; basidiis fasciculatis bacillaribus, 6-10 × 1. 5213

Hab. in foliis emortuis Fici elasticæ in hortis, Roma.

132. **Phoma cicatricum** Passer. Diagn. F. N. IV, n. 75. — Peritheciis crebre vel laxe gregariis, peridermio insculptis, minutissimis, atris; sporulis ellipticis, non guttulatis, integris, hyalinis, 5-6 × 2,5-3. 5214

Hab. in circatricibus foliorum in ramulis emortuis Ficus Caricæ in horto botanico parmensi Ital. bor. — Peritheciis minoribus non subcutaneis et sporulis non guttulatis nec fusiformibus a *Phoma cinerescenti* facile distinguenda.

133. **Phoma ulmicola** Rich. Cat. Champ. Marn. p. 548. — Peritheciis sparsis, subcutaneis; sporulis ovoideis 12 μ. long., pluriguttulatis, basidiis longis suffultis. 5215

Hab. in ramis Ulmi campestris, socia *Cryptosporellæ hypodermiæ*, cujus spermogonium dicitur, in silvis St-Amand Galliæ.

134. **Phoma Hariotiana** Wint. Exot. Pilze IV, p. 11. — Peritheciis amphigenis, dense sparsis, primo immersis, epidermide immutata, pustulatim inflata tectis, demum vertice erumpentibus, subglobosis, plus minus depressis, immo fere lentiformibus, ostiolo late papilliformi, obtuso, prominentibus, membranaceis, atris, 115-230 μ. long., 100-115 μ. (cum papilla) alt.; sporulis numerosissimis, ellipsoideis, utrinque acutiusculis, hyalinis, continuis, 5-7 × 2,5. 5216

Hab. ad folia emortua Fagi antarcticæ, Cap Horn America austr.

135. **Phoma antarctica** Speg. F. Fueg. n. 376. — Maculis nullis; peritheciis hypophyllis hinc inde dense aggregatis, immersis, epidermide velatis, parum prominulis ac perspicuis, subglobosis, 180-220 μ. diam., atro-olivaceis, ostiolo minuto impresso; contextu densissime parenchymatico, subimperspicuo, olivaceo-fuligineo; sporulis, ellipticis v. subcylindraceo-fusoideis, utrinque plus minusve rotundato-acutatis, 2-4 × 0,7-1, grosse 2-guttulatis, hyalinis; sterigmatibus conoideo-cylindraceis, 10 × 1-2. 5217

Hab. ad folia languida Fagi betuloidis in Staten island Fuegiæ.

136. **Phoma desolationis** Speg. F. Fueg. n. 377. — Maculis nullis; peritheciis globulosis, 80-90 μ. diam., hinc inde dense ac subbotryose aggregatis, primo epidermide tectis, dein erumpenti-denudatis, atris, subcarbonaceis, glabris, brevibus, ostiolo minutissimo, impresso; contextu indistincto; sporulis cylindraceis v. allantoideis, utrinque obtusis ac minute 1-guttulatis, 2-3 ≃ 0,5-0,8, hyalinis. 5218

Hab. in gallis ramulorum Fagi betuloidis in Fuegia pr. Brecknok pass.

137. **Phoma clausa** Wint, Exot. Pilze IV, p. 11. — Perithecis numerosis, sparsis, in alveolis ligni minutissimis semiimmersis, subglobosis vel ellipticis, tenuissime membranaceis, fuscis, poro haud conspicuo, tandem vertice dilabentibus, basin tantum fere cupuliformem relinquentibus, 160-270 μ. long.; sporulis myriadeis, minutissimis, oblongis, utrinque rotundatis, continuis, hyalinis, 3,5 ≃ 1,8. 5219

Hab. in lignum nudum Fagi antarcticæ ad Cap Horn Amer. austr.

138. **Phoma castanea** Peck 40 Rep. p. 59. — Peritheciis numerosis, ramulum cingentibus, 275-350 μ. lat., erumpentibus, nigris; sporulis minutis, oblongis vel cylindraceis, 6,25-7,5 ≃ 1,5-2; basidiis brevibus. 5220

Hab. in ramis emortuis Castanea vescæ, Sandlake Americæ borealis.

139. **Phoma crassipes** Cooke in Grevillea XIV, pag. 2. — Erumpens, subsparsa; peritheciis amplis, atris, opacis, subglobosis, demum apice libero; sporulis ovoideis, continuis, hyalinis, enucleatis, 6 ≃ 4. 5221

Hab. in ramulis Broussonetiæ papyriferæ, Kew Britanniæ.

140. **Phoma millepunctata** Desm. XX, Not. pag. 11. — Amphigena; maculis nullis; peritheciis innatis, minutis, numerosissimis, sparso-approximatis, globosis, 75-100 μ. diam. utrinque prominulis, rufo-pallidis, dein fuscis, depressis; ostiolo punctiformi; sporulis paucis, oblongis, exiguis, 5 μ. long. 5222

Hab. in foliis delapsis Mori albæ in Gallia. — Non *Phoma millepunctata* Penz. — Syll. III, pag. 105 — quæ *Macrophoma* (Confr. Berlese et Voglino sopra un Nuovo gen. di Sferops. in Atti Soc. Veneto-Trentina 1886).

141. **Phoma morifolia** Berl. F. moric. f. VI, n. 13, t. 48, f. 8-12. — Peritheciis sparsis, primo pallidis, dein brunneolis, demum brunneis, apicem versus obscurioribus astomis dein perforatis, globoso- 5223

conoideis, epidermide primo tectis, postremo emergentibus, membranaceo-molliusculis, $^1/_5$ mm. diam.; sporulis ovoideis utrinque guttulatis, hyalinis, 6-7 ≃ 3-5; basidiis cylindraceis vel obclavatis, 9-12 ≃ 2,5.

Hab. in pagina superiore foliorum putrescentium Mori albæ, Padova Ital. bor.

142. **Phoma Morearum** Brun. Champ. Saint. 1887, p. 429. — Peri- 5224
theciis sparsis vel gregariis, in cortice nidulantibus, dein erumpentibus, subglobosis vel globoso-depressis, nigris, pertusis; sporulis oblongo-subfusoideis, hyalinis, 8 ≃ 2,5, rectis, 2-guttatis.

Hab. in ramis emortuis Mori albæ, Pessines pr. Saintes Galliæ.

143. **Phoma limbalis** Passer. Diagn. F. N. IV, n. 76. — Maculis nul- 5225
lis; peritheciis hypophyllis sparsis v. gregariis, primo tectis, ostiolo minuto, vix visibili, dein nudatis, punctiformibus, atris glabris; sporulis oblongo-ellipticis, hyalinis, continuis, non guttulatis, 5 ≃ 2,5; basidiis non visis.

Hab. in foliis dejectis Platani occidentalis, socia *Læstadiâ venetâ* immaturâ, cujus forte status spermogonicus, in Ital. bor.

144. **Phoma dispersa** Cooke in Grevillea XIII, p. 93. — Hypophyl- 5226
la; peritheciis sparsis, crassis, subglobosis, erumpentibus dein subsuperficialibus, nigris, opacis; sporulis ellipticis, continuis, hyalinis, enucleatis, 15 ≃ 6.

Hab. in foliis delapsis Platani, Kew Britanniæ.

145. **Phoma Gallarum** Briard Suppl. p. 89. — Peritheciis numerosis, 5227
late effusis sphæricis, rugulosis, sæpe depressis, nigris, basi leviter innatis, 0,2-0,25 mm. diam.; sporulis subirregularibus, ovoideo-oblongis vel ovalibus, obtusis vel acutiusculis, sæpe 2-guttatis, hyalinis, 8-9 ≃ 3-4,5.

Hab. in gallis quercinis, Aube Galliæ.

146. **Phoma allantella** (Peck) Sacc. *Aposphæria allantella* Peck 43 5228
Rep. p. 26. — Peritheciis subglobosis subsuperficialibus, 170-200 μ. diam., nigris; sporulis minutis, allantoideis, 4-5 ≃ 2.

Hab. in ligno decorticato expallente Quercus rubræ, Mont. Catskill Amer. bor.

147. **Phoma aposphærioides** Briard et Hariot Rev. Myc. 1890 Oct. 5229
— Peritheciis numerosis, confertis, nigrescentibus, minutis, $^1/_6$-$^1/_5$ mm. diam., orbicularibus, depressis, rugosis et papillatis; sporulis ovoideis, hyalinis, 2-guttatis, 3,5-4 ≃ 1,5-2.

Hab. in ligno querneo putrido, Jab Puy-de-Dôme Galliæ (Héribaud).

148. **Phoma quercicola** Sacc. et Briard in Rev. Myc. 1886. — Peritheciis innatis, erumpentibus, nigris, nitidis, epiphyllis, approximatis, poro pertusis, in maculis griseis, irregularibus; sporulis ovato-oblongis, obtusis, continuis, hyalinis, 4-6 ≃ 1,5-2. 5230

Hab. in pagina superiore foliorum emortuorum Quercus, Troyes Galliæ (Briard).

149. **Phoma celtidicola** Brun. Suppl. Sphæroid. p. 1. — Peritheciis sparsis vel adproximatis, tectis, dein erumpentibus, nigris, globosis, pertusis; sporulis oblongo-elongatis vel subfusoideis, 8-10 ≃ 2,5-3, hyalinis, 2-guttulatis. 5231

Hab. in ramis emortuis Celtidis occidentalis, Saintes Galliæ.

150. **Phoma Celtidis** Cooke in Grevillea XIV, pag. 3. — Peritheciis prominentibus, convexis, laxe gregariis, cuticula tectis eamque ostiolo atro, punctiformi perforantibus; sporulis ovoideis, enucleatis, hyalinis, 5 ≃ 3,5. 5232

Hab. in ramulis Celtidis occidentalis, Kew? Britanniæ.

151. **Phoma albovestita** Fairm. Contr. Myc. West. N. Y. p. 50. — Maculis corticalibus, plerumque zona alba cinctis; peritheciis parvis, erumpentibus, cortice interiore immersis, raro botryoideo-aggregatis, sordide nigris; sporulis oblongis, utrinque rotundatis, 4-7 ≃ 1,5-2.

152. **Phoma juglandicola** Bacc. Fungh. Avell. p. 371. — Peritheciis gregariis punctiformibus depressis, obtusis, sub epidermide decolorata tandem fissa et ab hypodermio sejuncta prominulis, ostiolo minuto centrali pertusis; contextu crasso, nigro; sporulis ellipsoideis, 7 ≃ 4, hyalinis; basidiis filiformibus mediocribus. 5233

Hab. in mallo nucum Juglandis putrescentium, Avellino Ital. infer.

153. **Phoma Balsameæ** Brun. Esp. Sphærops. pag. 1. — Peritheciis vulgo epiphyllis, sparsis, punctiformibus, nigris, epidermide dein rimose lacerata tectis; sporulis ovatis, hyalinis, 8 ≃ 3, eguttatis. 5234

Hab. in foliis emortuis Abietis balsameæ in horto botanico Rochefort Galliæ.

154. **Phoma eguttulata** Karst. Symb. XIX, p. 88. — Peritheciis conoideo-rotundatis vel oblongatis, per epidermidem fissam erumpentibus, vertice varie dehiscentibus, pachydermaticis, atris, usque ad 1 mm. diam.; sporulis oblongatis vel oblongo-ellipsoideis, utrinque leniter attenuatis, rectis, eguttulatis, hyalinis, 5-6 ≃ 2-3. 5235

Hab. in foliis Pini silvestris et Abietis excelsæ circa Mustiala Fenniæ.

155. **Phoma Pittospori** Cooke et Harkn. — Syll. III, p. 73 — var. **Cembræ** Karst. Fragm. XXII, p. 2. — Peritheciis sparsis, per epidermidem erumpentibus laciniisque ejus cinctis, sphæroideis vel sphæroideo-applanatis, fuligineo-atris vel atris, 0,2–0,3 mm. diam., demum poro pertusis; sporulis ellipsoideis, oblongatis vel ovoideo-oblongatis, rectis, eguttulatis, hyalinis, 6–9 ≃ 2–3. 5236

Hab. ad ramulos siccos Pini Cembræ in horto mustaliensi Fenniæ (Onni Karsten).

156. **Phoma allostoma** (Lév.) Sacc. Syll. III, pag. 74. Teste Celotti Mic. Montp. p. 13, sporulæ 4–5 ≃ 2–3. Nascitur quoque in ramis Taxi, Montpellier Galliæ.

157. **Phoma Cunninghamiæ** Pass. et Roum. in Rev. Myc. 1885, p. 172. — Peritheciis sparsis, punctiformibus, atris; sporulis oblongiusculis, hyalinis, basidiis filiformibus, elongatis suffultis. 5237

Hab. in foliis aridis Cunninghamiæ sinensis in horto mimatensi Galliæ.

158. **Phoma Abietis** Briard Add. Syll. n. 4292. — Peritheciis minutissimis, dense longitudinaliter gregariis, mox superficialibus, vix $^1/_{10}$ mm. diam., atris, nitidulis, subglobosis, amphigenis; sporulis oblongis, cylindraceis, utrinque obtusis, rectis, 6–8 ≃ 2–3, hyalinis; basidiis non visis. 5238

Hab. in foliis emortuis Abietis pectinatæ, Troyes Galliæ.

159. **Phoma sapinea** Pass. in Rev. Myc. 1886, p. 91. — Peritheciis gregariis, epidermide velatis, subglobosis vel oblongis, fuscis; sporulis oblongis, utrinque rotundatis, enucleatis, hyalinis, 5 ≃ 2,5; basidiis nullis vel obsoletis. 5239

Hab. in squamis exsiccatis conorum Abietis excelsæ, Parma Ital. bor. (Passerini).

160. **Phoma conigena** Karst. in Rev. Myc. 1885, p. 106. — Peritheciis sparsis vel subgregariis, erumpentibus, mox superficialibus, difformibus, ut plurimum rotundatis, demum ore rimoso dehiscentibus, atris, 0,2–0,3 mm. latis; sporulis oblongatis, fusoideis, eguttulatis, hyalinis, 6–9 μ. longis. 5240

Hab. in squamis conorum emortuorum Pini silvestris ad Mustiala Fenniæ. — Ab affinibus *Phoma Pini, Ph. Pittospori* et *Ph. pithya*, peritheciis mox superficialibus statim dignoscenda.

161. **Phoma conophila** Sacc. *Phoma conigena* Karst. Symb. Myc. Fenn. XXVI, p. 29 (1888) nec Karst. (1885). — Peritheciis soli- 5241

tariis vel aggregatis, erumpentibus, superficialibus, varie compressis, sæpe elongatis, subhysterioideis, atris, nitentibus, levibus, subastomis, 0,1-0,2 mm. lat.; sporulis fusoideo-elongatis, solito rectis, eguttulatis, rarissime obsolete 1-septatis, 8-16 ≃ 1,5-2,5; basidiis filiformibus rectis, 10 × 1.

Hab. in squamis strobilorum Abietis excelsæ, Mustiala Fenniæ. — «An forma *Sporonematis strobilini?*».

162. **Phoma cooperta** Passer. Diagn. F. N. IV, n. 77. — Peritheciis 5242
immersis, extus intusque atris, subglobosis, pustulas centro hiantes subelevantibus; sporulis hyalinis, cylindricis, rectis, utrinque truncatis, 10,5 μ. long., sessilibus vel basidiis brevissimis fultis.

Hab. in squamis strobilorum Abietis excelsæ in horto botanico parmensi Ital. bor.

163. **Phoma deflectens** Sacc. Bomm. Rouss. Contr. Myc. Belg. III, 5243
p. 14. — Peritheciis aggregatis, inæqualiter globoso-oblongis vel depressis, epidermidem arrectam perforantibus, 1 mm. alt., 0,5-0,7 mm. cr.; sporulis cylindraceis, hyalinis, 2-guttatis, 7-12 ≃ 2-3, in cirrum albidum expulsis; basidiis linearibus, 10-12 × 1,5.

Hab. in basi foliorum emortuorum Araucariæ imbricatæ, bois de la Cambre prope Bruxelles Belgii.

164. **Phoma crassicollis** Karst. Sphærops. Fenn. p. 50. — Perithe- 5244
ciis sparsis, innatis, sphæroideis, siccis collapsis, atris, 0,2-0,3 mm. lat.; ostiolo papillato, erumpente; sporulis oblongatis v. fusoideo-oblongatis seu elongatis, rectis, raro inæquilateralibus v. subcurvulis, eguttulatis, 7-16 ≃ 2-4.

Hab. in foliis emortuis Pini silvestris, Mustiala Fenniæ.

165. **Phoma pityella** Sacc., *Sphæropsis pitya* Thuem. M. U. n. 1888 5245
nec Sacc. — Peritheciis solitariis v. subgregariis, interdum confluentibus, inordinate dispositis, cephaloideis, e cuticula disrumpenti elevatis, pro ratione magnis, opaco-atris; sporulis ellipticis v. ovatis, simplicibus, utrinque vix acutatis v. plerumque subrotundatis, achrois, 4-7 ≃ 2-2,5; basidiis brevissimis fultis.

Hab. in ramulis Laricis europææ, Lohr Bavariæ (Rehm).

166. **Phoma pitya** Sacc. Syll. III, pag. 73. — Var. **Taxodii** Sacc. in 5246
Rev. Myc. 1885. — Sporulis 7-8 ≃ 2, biguttulatis, hyalinis.

Hab. in cortice Taxodii in Gallia (Angelle Roumeguère).

167. **Phoma Laricis** Lév. Voy. pag. 111, t. IV, f. 5, Sacc. Syll. III, 5247
p. 169. — Erumpens, unilocularis; peritheciis sparsis v. subseriatis, globosis, nigris, ostiolis papillatis; sporulis oblongo-linearibus, simplicibus, pellucidis.

Hab. in conis Laricis in Tauria.

168. **Phoma Cycadis** Sacc. et Berl. in Rev. Myc. 1886. — Peritheciis sparsis, primum tectis dein ostiolo protuberante nitidis, conoideis v. conoideo-applanatis, 150-200 μ. diam.; sporulis ellipsoideis, minutis, 6 ≃ 2, hyalinis, basidiis longiusculis, cylindraceis, simplicibus, 18-20 ≃ 2, suffultis. 5248

Hab. in pedunculo emortuo Cycadis revolutæ in Algeria. — Cum *Chætophoma Cycadis*, cui magnitudine sporularum nec non matrice affinis, haud comparanda.

169. **Phoma congregata** Pat. Bull. Soc. Myc. 1891, p. 178. — Peritheciis minutis, 40-50 ≃ 25, subglobosis, substipitatis, dense gregariis, sed semper solitariis coriaceis, brunneo-nigris, deorsum opacis, sursum pellucidis, rugoso-squamulosis sed non pilosis; sporulis cylindraceis, 3-6 ≃ 1, hyalinis, numerosissimis. 5249

Hab. in ramis decorticatis, Egido prope Quito Æquatoriæ. — « An potius *Aposphæria?* »

170. **Phoma purpurea** Cooke et Mass. Grev. XV, p. 97. — Amphigena; maculis orbicularibus, purpureis; peritheciis semiimmersis, atris, nitidis, primo tectis, gregariis, subcircinatis; sporulis minutis, ellipticis, hyalinis, 4 ≃ 2. 5250

Hab. in foliis coriaceis, Brisbane Australiæ (Bailey). — **Sphæria pericarpii** Schw., **Sph. glandicola** Schw., **Sph. Surculi** Fr. — Syll. II. n. 4326, 4328, 4322. — Secundum Cooke Grev. XVI, ad exempl. Berkeleyana, hæ sunt *Phomæ* species. *Sph. glandicola* (sp. 5 ≃ 3, basidia 20 ≃ 3) non est forte a *Ph. glandicola* (Desm.) satis diversa.

II. *In Dicotyledoneis herbaceis.*

171. **Phoma Hellebori** Br. et Har. Journ. de Bot. 1891, p. 170. — Peritheciis oblongis, numerosis, innatis, epidermide tumefacta et nigrificata tectis, 0,3-0,5 mm. long., 0,2-0,3 mm. lat.; sporulis ovato-oblongis, obtusis, rarius utrinque attenuatis, 2-guttatis, hyalinis, 8-10 ≃ 3-4; basidiis longis, 20-24 ≃ 1-1,5, leviter uncinatis. 5251

Hab. ad caules siccos Hellebori fœtidi pr. Clermont Arverniæ (Héribaud).

172. **Phoma Aquilegiæ** Rich. Cat. Champ. Marn. p. 546. — Peritheciis seriatis, minutis, brunneis; sporulis grandiusculis, 6 μ. long.; basidiis subarcuatis, 12 μ. longis. 5252

Hab. in caulibus emortuis decorticatis Aquilegiæ vulgaris, St. Amand Galliæ.

173. **Phoma endorrhodioides** Sacc. et Briard Champ. nouv. de l'Aube n. 12. — Perfitheciis sparsis, innatis, subepidermicis, oblongis vel discoideis, nucleo roseo; ostiolo papillato, epidermidem nigrefactam perforante; sporulis ovato-oblongis. obtusis. hyalinis, 2-guttulatis, 12-16 ≃ 4-5. 5253

Hab. in caulibus siccis Thalictri flavi, Troyes Galliæ (Briard).

174. **Phoma Vitalbæ** Passer. Diagn. F. N. n. 78. — Peritheciis membranaceis, luteo-fuscidulis, basi hyphis reptantibus, articulatis præditis; sporulis oblongo-ellipticis, obscure ad apices 5 ≃ 2,5, guttulatis. 5254

Hab. in ramulis Clematidis Vitalbæ, in horto botanico parmensi Ital. bor. — A *Ph. Clematidis* differt præsertim sporulis multo minoribus et perithecii characteribus ab omnibus aliis in Clematide descriptis videtur diversa.

175. **Phoma Jacquiniana** Cooke et Mass. Grev. XVII, p. 56. — Caulicola; peritheciis gregariis, minutis, nigris, papillatis, epidermidem elevantibus et demum perforantibus; sporulis ellipsoideis, utrinque 1-guttatis, hyalinis, 15 ≃ 5. 5255

Hab. in caulibus Delphinii Jacquiniani, Kew Britanniæ.

176. **Phoma tingens** Cooke et Mass. in Grev. XVII, p. 56. — Sparsa; peritheciis minutis, subglobosis, nigris, papillatis, maculis læte rubris, matrice penetrantibus insidentibus; sporulis ovoideis, 3-4 ≃ 1,5. 5256

Hab. in caulibus Delphinii elati, Kew Britanniæ.

177. **Phoma gibberoidea** Cooke et Mass. in Grev. XVII, pag. 56. — Caulicola; peritheciis sparsis, membranaceis, mollibus et gelatinosis, magnis, subglobosis, dein depressis, apice pertusis, erumpentibus, atro-brunneis; sporulis profusis, cylindraceis, obtusis, rectis v. subincurvis, hyalinis, 14 ≃ 2; basidiis brevibus. 5257

Hab. in caulibus Delphinii elati, Kew Britanniæ.

178. **Phoma Alliariæ** Delacr. Bull. Soc. Myc. 1890, p. 140. — Peritheciis sparsis, atro-fuscis, secundum longitudinem caulis dispositis, applanatis, 500 μ. long., 190 μ. lat., 125 μ. alt., poro papillato; sporulis ovoideis vel fusoideis, continuis, hyalinis, 2-guttulatis, 10-11 ≃ 2,5-3: basidiis sursum attenuatis, rectis vel curvulis, 15 ≃ 1. 5258

Hab. in caule sicco Erysimi Alliariæ Rueil pr. Paris. — *Ph. Lingam* affinis.

179. **Phoma matthiolicola** Brun. Champ. Saint. 1887, p. 430. — Pe- 5259

ritheciis sparsis v. subgregariis, tectis, dein erumpentibus, numerosis, minutissimis, globosis v. globoso-depressis; sporulis ovoideo-oblongis, 4-5 ∞ 2, eguttatis, hyalinis.

Hab. in siliquis exsiccatis Matthiolæ sinuatæ, Fouras pr. Saintes Galliæ.

180. **Phoma Matthiolæ** Brun Suppl. Sphæroid. p. 2. — Maculis nullis; peritheciis globosis, dein applanatis, sparsis, nigris, subnitentibus, $^1/_4$-$^1/_3$ mm. diam., primo tectis, mox omnino liberis, poro pertusis; sporulis oblongis, hyalinis, 2-guttatis, 7-10 ∞ 2,5-3. 5260

Hab. in siliquis Matthiolæ incanæ, Pessines prope Saintes Galliæ.

181. **Phoma glacialis** Speg. F. Fueg. n. 380. — Peritheciis sparsis, primo epidermide tectis, dein nudis, globosis v. conoideo-lenticularibus, 180-220 μ. diam., atris, glabris, coriaceo-membranaceis, ostiolo non v. vix papillulato pertusis; contextu subindistincto, parenchymatico, fuligineo; sporulis ellipticis, utrinque obtusiusculis, 2-3 ∞ 1, uni-guttulatis, rectis vel inæquilateralibus, hyalinis. 5261

Hab. ad caules emortuos Cardaminis geraniifoliæ var. glacialis in alpinis pr. Port Cook in Staten island Fuegiæ.

182. **Phoma Joannis** Sacc., *Phoma Polygalæ* Passer. Diagn. F. N. IV, n. 79, nec Cooke et Harkn. — Peritheciis sparsis, tectis, punctiformibus, pallidulis; sporulis cylindricis, rectis, utrinque acutiusculis et guttulatis, hyalinis, 10 ∞ 2,5; basidiis non visis. 5262

Hab. in caulibus siccis Polygalæ vulgaris, Fornovo prope Carona in agro parmensi Ital. bor.

183. **Phoma polygalina** Passer. Diagn. F. N. IV, n. 80. — A præcedente differt peritheciis crassioribus, atris, pustulatim prominulis et sporulis ovoideis, minutissimis. 5263

Hab. in Polygala vulgari, Fornovo prope Carona in agro parmensi Ital. bor.

184. **Phoma Polygalæ** Cooke et Harkness in Grevillea XIII, p. 111. — Caulicola; peritheciis gregariis, subcutaneis, globoso-depressis, pertusis, epidermide nitida velatis; sporulis subfusoideis, enucleatis, utrinque obtusis, hyalinis. 5264

Hab. in caulibus Polygalæ in California (Harkness).

185. **Phoma Cichorii** Passer. Diagn. F. N. IV, n. 85. — Peritheciis gregariis, lineari-seriatis, subglobosis v. oblongis, matricem infuscantibus v. strato subcrustaceo, fusco inquinantibus; sporulis oblongis, 2-guttatis, hyalinis, 5 ∞ 2,5, basidiis filiformibus, longioribus fultis. 5265

Hab. in caulibus siccis denudatis Cichorii Intybi et Phlogis Carolinæ, Vigheffio pr. Parma Ital. bor.

186. **Phoma Echioidis** Brun. Suppl. Sphæroid. p. 2. — Maculis stro- 5266
maticis irregularibus, elongatis, nigris, margine saturatis; perithe-
ciis sparsis v. gregariis, erumpentibus, compressis, nigris; sporulis
oblongis, elongatis, hyalinis, 2-guttulatis, 7-10 ≃ 2,5.

Hab. in caulibus emortuis Helminthiæ echioidis, Saintes Galliæ.

187. **Phoma scutellata** Sacc. et Paol. Mycet. Sibir. p. 21, f. 21. — 5267
Peritheciis dense gregariis, innato-erumpentibus, globoso-applana-
tis, minutissime papillatis, demum collabascendo patellatis, initio
brunneis, demum nigricantibus, $^1/_{10}$ mm. latis; sporulis fusoideis,
curvatis, utrinque acutiusculis, 9 ≃ 2,5, continuis, hyalinis, eguttu-
latis, basidiis nullis v. perexiguis.

Hab. in caulibus Crepidis tectorum in desertis prope Gorodok Sibiriæ.

188. **Phoma Grovei** Berl. et Vogl. Add. Syll. n. 4303, *Phoma rubella* 5268
Grov. New Not. Fung. p. 8, n. 50 (non Cooke). — Peritheciis gre-
gariis olivaceis, tenuibus, $^1/_3$-$^1/_4$ mm. diam., lenticularibus, breve
papillatis, sub epidermide late cruentata immersis, ostiolo pertuso
vix emergente; sporulis oblongis, utrinque 1-guttatis, 6-7 ≃ $2^1/_2$-3,
rectis, hyalinis.

Hab. in caulibus emortuis Cardui, prope Three Shire Oak Brit., sociâ *Metasphæriâ rubellâ*, cujus vix dubie spermogonium habenda.

189. **Phoma sanguinolenta** Grove New Not. Fung. pag. 8, n. 49. — 5269
Peritheciis laxe gregariis, atris, opacis, $^1/_3$ mm. diam., epidermide
libroque solutis, inter fibras ligneas, flexuosas, splendide purpureo-
tinctas nidulantibus, demum emersis, globosis compressisve, coni-
co-papillatis; hyphis purpureis, parce septatis, 3 μ. crass. vestitis;
sporulis oblongis, utrinque 1-guttatis, 6-7 ≃ $2^1/_3$-3, rectis, hyalinis.

Hab. ad basim caulium Cardui putrescentium prope Three Shire Oak Brit., sociâ *Leptosphæriâ cruentâ*, cujus haud dubie spermogonium.

190. **Phoma Pycnocephali** Passer. Diagn. F. N. V, n. 28. — Peri- 5270
theciis sparsis, punctiformibus, epidermide velatis, membranaceis;
contextu celluloso, fuscidulo; sporulis cylindraceis, ad polos ob-
scure guttulatis, 5 ≃ 1-1,5, hyalinis.

Hab. in caulibus Cardui pycnocephali, Vigheffio in agro parmensi Ital. bor.

191. **Phoma Pulicariæ** Passer. Diagn. F. N. V, n. 23. — Peritheciis 5271
dense sparsis, minutis, erumpentibus; sporulis elongato fusiformibus, eguttulatis, hyalinis, 10–12,5 = 2,5.

Hab. in ramulis Pulicariæ viscosæ in Ital. boreali.

192. **Phoma Solidaginis** Cooke in Grevillea XIII, pag. 95. — Cauli- 5272
cola; peritheciis gregariis, numerosis, primo cuticula tectis dein convexis, atris, nitentibus, poro minuto pertusis; sporulis anguste ellipticis, 9–10 = 2, binucleatis; basidiis brevibus.

Hab. in caulibus Solidaginis canadensis, Kew Brit.

193. **Phoma Rudbeckiæ** Fairm. Contr. Myc. West. N. Y. pag. 50. — 5273
Peritheciis numerosis, erumpentibus, globoso-depressis, ostiolatis, subnigris; sporulis oblongis, utrinque rotundatis, 4-6 = 2–3, hyalinis.

Hab. ad caules emortuos Rudbeckiæ laciniatæ, Lyndonville, N. Y. Amer. bor.

194. **Phoma Silphii** Passer. Diagn. F. N. IV, n. 84. — Peritheciis 5274
sparsis, punctiformibus, tectis, subglobosis, atris; sporulis subfusiformibus, apicibus acutis, non guttatis, 7,5–10 = 2,5, hyalinis.

Hab. in caulibus Silphii in horto botanico parmensi Ital. bor.

195. **Phoma Tussilaginis** Cooke et Mass. in Grev. XV, pag. 108. — 5275
Epiphylla; peritheciis primo tectis, dein hemisphæricis, nigris, apice pertusis, in maculas brunneas, irregulares gregariis, minutis, punctiformibus; sporulis ellipsoideis, hyalinis, continuis, 8–10 = 5–6.

Hab. in foliis putrescentibus Tussilaginis Farfaræ, Canal Bank, Hereford. — Species ad *Asteromellam* vergens.

196. **Phoma arvernica** Flag. et Sacc. nov. sp. — Peritheciis sparsis, 5276
hypophyllis innato-erumpentibus, villo foliorum fere abditis, lenticularibus, $^1/_3$ mm. diam., poro pertusis, nigricantibus; sporulis elliptico-fusoideis, rectis, 11-13 = 3, plerumque 2-guttatis, hyalinis; basidiis cylindraceis sursum attenuatis, 15 = 2–3, subinde binis cellula communi suffultis.

Hab. in foliis exsiccatis Carlinæ acanthifoliæ, Plomb du Cantal, Saone et Loire Galliæ (Flageolet).

197. **Phoma ambiguella** Karst. et Har. Journ. Bot. 1890, pag. 357. 5277
— Peritheciis sparsis, primo cuticula tectis, dein erumpenti-subsuperficialibus, orbicularibus v. oblongatis, solito irregularibus, membranaceis, mollibus, contextu parenchymatico, primitus clausis, dein ore plus minus ampliato apertis, brunnescentibus, siccitate subnigrescentibus, intus pallidis, pusillis, fere punctiformibus; sporulis ellipsoideis, eguttulatis, hyalinis, 6-9 = 3-4.

Hab. in caulibus exsiccatis Tanaceti, Méry-sur-Seine Galliæ. — Inter *Phomam* et *Excipulam* anceps.

198. **Phoma Dipsaci** Cooke in Grevillea XIII, p. 94. — Caulicola; peritheciis gregariis, sed non stipatis, subglobosis, papillatis, cuticulam demum longitudinaliter perforatam elevantibus; sporulis sublanceolatis, obtusis, binucleatis, 9–10 ≃ 3,5. 5278

Hab. in caulibus Dipsaci silvestris, Kew Britanniæ.

199. **Phoma iaganica** Speg. F. Fueg. n. 381. — Maculis nullis; peritheciis densiuscule gregariis, epidermide tectis, prominulis, e globoso lenticularibus, 200–220 μ. diam., ostiolo exsertulo, crassiusculo ac longiuscule papillato coronatis, atris, glabris, membranaceo-coriaceis; contextu densissime parenchymatico, subimperspicuo, atro-fuligineo; sporulis cylindraceis v. ellipticis, utrinque acutatis v. rotundatis, 2,5–4 ≃ 1–1,5, minute 1-guttulatis, hyalinis. 5279

Hab. in leguminibus aridis Viciæ magellanicæ in herbosis pr. Ushuvaia Fuegiæ.

200. **Phoma Thermopsidis** Ell. et Gall. Journ. Myc. 1889, p. 65. — Peritheciis gregariis, tectis, epidermidem elevantibus et findentibus sed vix erumpentibus, subhemisphæricis, ostiolo papilliformi; sporulis oblongis, hyalinis, 2-guttatis, non incurvis, 15-20 ≃ 5-6. 5280

Hab. in caulibus emortuis Thermopsidis rhombifoliæ, Helena, Mont. Amer. bor.

201. **Phoma Astragali** Cooke et Hark. in Grevillea XIII, p. 111. — Caulicola, tecta; peritheciis depressis, semiimmersis, epidermide velatis; sporulis subfusoideis, binucleatis, hyalinis. 5281

Hab. in caulibus Astragali in California (Harkness).

202. **Phoma Astragali-alpini** Oudem. Contr. à la Flore myc. de Nowaja Semlja p. 15, t. I, f. 17. — Peritheciis caulogenis, sparsis, atris, primo absconditis, denique superficialibus, depresso-globosis, ostiolo breve conico, 170–200 μ. diam.; sporulis dilutissime flavescentibus, continuis, 6 ≃ $2^1/_3$, rectis, utrinque obtusatis, vacuolis in exemplis nostris siccatis perraro distinguendis. 5282

Hab in Astragalo alpino in Nowaja Semlja.

203. **Phoma phaseolina** Pass. in Brun. Mat. myc. Saint. pag. 22. — Peritheciis minutis, adproximatis, globosis, contextu minute fuligineo-parenchymatico, intus albis; sporulis cylindraceis, rectis, utrinque vix distincte 1-guttatis, 5 ≃ 2. 5283

Hab. in leguminibus siccis Phaseoli, Pessines, Saintes Galliæ.

204. **Phoma Lupini** Ell. et Ev. in Bull. Wash. Lab. Nat. Hist. 1884, p. 6. — Peritheciis minutis, subsuperficialibus, atris, dense grega- 5284

riis, in maculis 2-3 mm. diam. confluentibus, magnam partem paginæ inferioris foliorum occupantibus superioremque pallide brunneo colorantibus; sporulis oblongo-hyalinis, 2,5 ∞ 1.

Hab. in foliis vivis Lupini? Falcon Valley Amer. bor.

205. **Phoma Poterii** Passer. Diagn. F. N. IV, n. 40. — Peritheciis 5285
sparsis, epidermidem sublevantibus et longitudinaliter findentibus, ovalibus, atris; contextu membranaceo, celluloso, fuligineo; sporulis innumeris, bacillaribus, pluriguttatis, rectis, hyalinis, 10-12 ∞ 1; basidiis brevibus.

Hab. in caulibus siccis Poterii Sanguisorbæ, Parma Italiæ borealis.

206. **Phoma Plumbaginis** Passer. Diagn. F. N. IV, n. 86. — Peri- 5286
theciis sparsis, minutis, tectis, subglobosis vel elongatis, papillulatis, atris, tandem epidermide consumpta nudatis; sporulis naviculatibus utrinque acutiusculis et guttulatis, hyalinis, 5 ∞ 2; basidiis filiformibus, longitudine varia, sæpe sporulas multo superantibus.

Hab. in ramis siccis Plumbaginis europææ, Orvieto Italiæ.

207. **Phoma Lini** Passer. Diagn. F. N. IV, n. 81. — Peritheciis cre- 5287
bre sparsis, sæpius in lineas longitudinales digestis, minutissimis, fuscis; contextu celluloso fuligineo; sporulis minimis, allantoideis.

Hab. in caulibus Lini tenuifolii, Vigheffio prope Parmam Ital. bor.

208. **Phoma Lysimachiæ** Cooke in Grevillea XIII, p. 94. — Caulico- 5288
la, laxe gregaria, punctiformis; peritheciis atris, leniter cuticulam nigrescentem elevantibus, minutis, subglobosis; sporulis late lanceolatis, binucleatis, 10 ∞ 4,5-5; basidiis brevibus, rectis.

Hab. in caulibus Lysimachiæ vulgaris, Kew Britanniæ.

209. **Phoma Lyndonvillensis** Fairm. Contr. Myc. West. N. Y. p. 50, 5289
t. III, f. 4. — Maculas evanidas occupans; peritheciis ostiolatis; sporulis minutis, ovoideis vel oblongis, interdum guttulatis, 3-6 μ. diam.

Hab. in caulibus Malvæ rotundifoliæ, New York Americæ borealis.

210. **Phoma corvina** Ravenel Fung. Amer. n. 588. — Peritheciis glo- 5290
boso-depressis, subcutaneo-erumpentibus, atris, laxe gregariis, vix papillatis; sporulis minutis, ellipticis, continuis, hyalinis, 8 ∞ 1.

Hab. in ramis Gossypii in Carolina infer. Amer. bor. (Ravenel).

211. **Phoma Althææ** Pass. in Brun. Champ. Saint. V, p. 5. — Pe- 5291

ritheciis membranaceis, lenticularibus, depressis; contextu celluloso, fuliginoso; sporulis minutissimis, bacillaribus, hyalinis.

Hab. in caulibus emortuis Althææ officinalis, Saintes, Saint-Sever, Chaniers in Gallia.

212. **Phoma Alcearum** Cooke in Grevillea XIII, p. 94. — Caulicola; perithecis numerosis, dense gregariis in macula lata, punctiformibus, membranaceis, fuscis, senectute atris, depressis, epidermide tectis; sporulis ellipticis, obtusis, enucleatis, hyalinis, 15 ≃ 5. 5292

Hab. in caulibus Althææ roseæ, Kew Britanniæ. — Habitu *Ph. nebulosæ* similis.

213. **Phoma Podophylli** Cooke in Grev. XV, p. 108. — Epiphylla; perithecis subsparsis, nigris, punctiformibus, maculis brunneis insidentibus, convexis, subprominulis; sporulis anguste ellipsoideis, utrinque 1-guttatis, 10 ≃ 3. 5293

Hab. in foliis Podophylli, Kew Britanniæ.

214. **Phoma Nelumbii** Cooke et Mass. in Grev. XVI, p. 78. — Peritheciis sparsis, erumpentibus, mox denudatis et prominulis, subglobosis, nigris, opacis, $^1/_6$ mm. diam.; sporulis ovoideis, continuis, hyalinis, episporio crasso, centro 1-guttatis, 10 ≃ 7. 5294

Hab. in caulibus putrescentibus Nelumbii speciosi, Kew Britanniæ.

215. **Phoma tecta** Passer. Diagn. F. N. IV, n. 82. — Peritheciis subcutaneis, parvulis, globosis, lineari-seriatis, ostiolo minutissimo, vix perspicuo; contextu parenchymatico, atro; sporulis minutis, oblongis, non guttatis, 5-6 ≃ 2,5, hyalinis. 5295

Hab. in caulibus Bryoniæ dioicæ in horto botanico parmensi Ital. bor.

216. **Phoma lagenaria** Passer. Diagn. F. N. IV, n. 83. — Stromate atro, plagas irregulares efformante, pustulis prominulis, obtusis disseminato; sporulis oblongis, apicibus rotundatis, 2-guttatis, hyalinis, 10 ≃ 2,5. 5296

Hab. in pericarpio fracido Lagenariæ vulgaris in horto botanico parmensi Ital. bor.

217. **Phoma Mamillariæ** Ell. et Ev. Journ. Myc. 1888. pag. 102. — Peritheciis subelongatis; sporulis oblongo-cylindraceis, 1-3-guttatis, 9-12 ≃ 3,5-4, utrinque obtusis. 5297

Hab. in spinis Mamillariæ viviparæ, Sand Coulee, Montana Amer. bor.

218. **Phoma lirella** (Desm.) Sacc. Syll. III, pag. 139. — Var. **Sedi** Briard et Har. Suppl. p. 86. — Peritheciis 3-5 lirelliformiter se- 5298

riatis innato-erumpentibus, nigris, 1-1,5 mm. long., 0,2-0,3 mm. lat.; sporulis oblongo-cylindraceis, obtusis, hyalinis, 2-guttatis, 6-9 ≃ 3.

Hab. in caulibus siccis Sedi Telephii, Aube Galliæ.

219. **Phoma Doliolum** Karst. Symb. myc. XXIII, p. 9. — Peritheciis 5299
subconoideis, ostiolo distincto, subtenui, pertuso nigris, 0,3 mm. lat.; sporulis elongatis, continuis, hyalinis, 8-12 ≃ 2.

Hab. in caulibus emortuis Sedi Telephi pr. Aboam Fenniæ. — Spermogonia *Leptosphæriæ Dolioli* forte sistit.

220. **Phoma Batatæ** E. et Halst. Bull. N. Jers. Agr. Stat. n. 76, p. 25. 5300
— Peritheciis atris, gregariis, immersis; sporulis tereti-ovoideis, hyalinis, basidiis gracilibus fultis.

Hab. in tuberculis Convolvuli Batatæ, Amer. bor.

221. **Phoma Calystegiæ** Cooke in Grevillea XIII, pag. 94. — Caulicola, 5301
gregaria; peritheciis prominentibus, amplis, subglobosis, cuticulam nigrefactam elevantibus, interdum maculis irregularibus, albicantibus insidentibus; sporulis sublanceolatis, utrinque acutis, binucleatis, hyalinis, 7,5-8 ≃ 3,5.

Hab. in caulibus emortuis Calystegiæ sepium, Kew, Highgate, Dartford Britanniæ.

222. **Phoma Salviæ** Brun. Liste Sphærops. pag. 16. — Peritheciis 5302
sparsis vel approximatis, primo tectis dein erumpentibus, globulosis, parvis, nigris, macula linea stromatica nigra cincta insidentibus; sporulis oblongis, hyalinis, biguttulatis, 7-8 ≃ 2-2,5; basidiis filiformibus, 15 ≃ 1.

Hab. in caulibus emortuis decorticatis Salviæ officinalis, Saintes Galliæ.

223. **Phoma Phlomidis** (Lèv.) Cooke Grev. XIII. 1884, p. 44, Karst. 5303
et Har. Journ. Bot. 1890, pag. 358, *Dothidea* Lèv. Voy. Demid. p. 108. — Peritheciis gregariis, erumpenti-superficialibus, globulosis vel globoso-conoideis, atris, nitentibus, ore lato apertis, 0,1 mm. diam., nucleo pallido; sporulis cylindraceis, rectis vel subrectis, hyalinis, 4-6 ≃ 1.

Hab. ad folia Phlomidis in Tauria (Demidoff).

224. **Phoma Hyssopi** Passer. Diag. F. N. IV, n. 41. — Peritheciis 5304
subcutaneis, ovalibus, atris; sporulis minutis, allantoideis, hyalinis, basidiis bacillaribus, crassioribus, hyalinis, fultis.

Hab. in ramulis siccis Hyssopi officinalis, in horto botanico parmensi, Ital. bor.

225. **Phoma Leonuri** Let. in Rev. Myc. 1884, pag. 229. — Perithe- 5305

ciis punctiformibus, sæpe sub lente ovoideis, nigris, numerosis, sparsis, primo epidermide tectis, demum, eâ ruptâ, prominulis, poro pertusis; sporulis hyalinis, ovatis, 4-5 ≃ 2.

Hab. in caulibus exsiccatis Leonuri Cardiacæ, Seine infer. Galliæ.

226. **Phoma Stachydis** Brun. Mat. myc. Saint. p. 22. — Peritheciis 5306
tectis, oblongis vel subglobulosis, nigris, macula stromatica, nigra, fusoidea v. irregulariter elongata nigro-limitata insertis; sporulis ovoideis, hyalinis, 5,6 ≃ 2,5, eguttatis.

Hab. in caulibus emortuis Stachydis rectæ, Saintes Galliæ.

227. **Phoma Labiatarum** Cooke in Grevillea XIII, pag. 95. — Caulicola; 5307
peritheciis sparsis, punctiformibus, minutis, leniter prominentibus, convexis, atris, lucentibus, non papillatis; sporulis ovalibus, hyalinis, 5 ≃ 3; basidiis brevibus.

Hab. in caulibus emortuis Marrubii, Kew Britanniæ.

228. **Phoma Polemonii** Cooke in Grevillea XIII, pag. 94. — Caulicola; 5308
peritheciis gregariis, globoso-depressis, atris, lucentibus, acute distincteque ostiolatis, demum cuticula secessa liberis: sporulis anguste ellipticis, indistincte nucleatis, 10 ≃ 3.

Hab. in caulibus Polemonii cœrulei, Kew Britanniæ.

229. **Phoma Oudemansii** Berl. et Vogl. Add. Syll. n. 4318, *Phoma Po-* 5309
lemonii Oudem. Contr. à la Flore myc. de Nowaja Semlja p. 16, t. I, f. 18 (non Cooke). — Peritheciis phyllogenis, subcarbonaceis, innato-erumpentibus, sparsis, minutis; sporulis hyalinis, oblongo-ovalibus, utrinque obtusis, $11^2/_3 \simeq 4^2/_3$.

Hab. in Polemonio pulchello in Nowaja Semlja.

230. **Phoma Goodeniarum** Cooke et Mass. Grev. XVI, p. 2. — Epi- 5310
phylla, sparsa; peritheciis punctiformibus, minutis, atris, innatis, membranaceis; sporulis subellipticis, binucleatis, continuis, hyalinis, 8-10 ≃ 5.

Hab. in foliis subemortuis Goodeniæ ovatæ, Victoria Australiæ (Campbell).

1. **Phoma Atropæ** Roum. Fung. Gall. exsic. n. 4465. — Peritheciis 5311
brunneo-nigris, subconfertis, primo applanatis et epidermide hinc inde nigrificata tectis, dein erumpentibus, nudis, poro elongato pertusis; sporulis ovoideis, hyalinis, utrinque guttatis, 10 ≃ 5.

Hab. in caulibus siccis Atropæ Belladonnæ, Radepont Eure, sociâ *Cytosporâ Atropæ* Roum. loc. cit. receptaculis conoideis, epidermide velatis, disco applanato, nigro, erumpente; sporulis minutissimis, cylindricis, incurvis, hyalinis, 2-3 ≃ 0,5.

232. **Phoma Lycopersici** Cooke in Grevill. XIII, p. 94, *Phoma hebarum* Cooke Fungi Brit. II, 415. — Caulicola; perithecii punctiformibus, nigris, dense gregariis, primum epidermide tectis, demum plus minusve erumpentibus; sporulis lanceolatis, binucleatis, 12 × 4. 5312

Hab. in caulibus Lycopersici, Forden Britanniæ (Vize).

233. **Phoma destructiva** Plowr. Fung. Dis. Tom. pag. 4, fig. 7. — Peritheciis carbonaceis, minutis, globosis, papillato-pertusis, aggregatis; sporulis oblongo-ovoideis, 2-guttatis, 5-6 × 1,5-2, hyalinis. 5313

Hab. in fructibus, quos valde vexat, Lycopersici esculenti pr. King's Lynn Britanniæ.

234. **Phoma Solani** Cooke et Hark. in Grevillea XIII, p. 16. — Gregaria; peritheciis minutis, membranaceis, subglobosis, papillatis tectis; sporulis ellipticis, hyalinis, 6-7 × 4. 5314

Hab. in caulibus Solani in California (Harkness).

235. **Phoma solanicola** Prillieux et Delacroix Bullet. Soc. Mycol. de Fr. 1890, Pl. XX, fig. II. — Maculis amplis, candidis v. subluteolis; peritheciis gregariis, subrotundis, immersis; collo papillato, prominulo, 135-145 × 110-115; sporulis ovatis, hyalinis, utroque apice uniguttatis, 7,5 × 3. 5315

Hab. in caulibus ramisque vivis Solani tuberosi, quos exsiccat, Verrières-le-Buisson et Joinville-le-Pont prope Parisios Galliæ.

236. **Phoma Orobanches** C. Mass. Contr. Mic. Ver. p. 85, t. II, f. 10. — Peritheciis minutis, sparsis, nigris, subcutaneis, vix prominulis, depresso-sublenticularibus, poro perviis; sporulis subcylindraceis ovalibusve, 6-9 × 2-3, hyalinis, biguttulatis, basidiis simplicibus, 10-12 × 2 suffultis. 5316

Hab. in corollis exsiccatis Orobanches rubentis, Tregnago agr. veronensis.

237. **Phoma Veronicæ** Roum. — Syll. III, p. 128. — Var. **fructicola** Pat. in Har. Champ. Cap Horn. p. 196. — Peritheciis 100-150 μ. diam.; sporulis ovoideis 5 × 2,5, hyalinis. In fructibus Veronicæ ellipticæ in ins. Wollaston (Hariot).

238. **Phoma Lingam** (Tode) Desm. — Syll. III, p. 119 — forma **Linariæ** Sacc. et Paol. Myc. Sib. p. 20. — Sporulis 7 × 2, allantoideis, in peritheciis gregariis, majusculis, complanatis, atris, albido-farctis congestis. 5317

Hab. in ramis exsiccatis Linariæ genistæfoliæ in desertis pr. Nowaselowa Sibiriæ (Martianoff).

239. **Phoma Pedicularis** Fuckel in Heuglin Reisen Nordpol. vol. III, Oud. Contrib. Myc. p. 5. — Peritheciis ab epidermide tectis, depresso-globosis, atris, mediæ magnitudinis, ostiolo brevi, cylindrico erumpente, atro; sporulis cylindraceis, rectis, biguttulatis, 6 ≈ 2 hyalinis. 5318

Hab. in foliis exsiccatis Pedicularis cujusdam in insula Nowaja Semlja.

240. **Phoma Caryophylli** Cooke in Grevillea XIII, p. 94. — Peritheciis amplis, convexis, atris lucentibus, maculis indefinitis, albicantibus insidentibus; sporulis fusiformibus, utrinque subobtusis, vix distincte nucleatis, hyalinis, 9 ≈ 3. 5319

Hab. in calycibus et subinde in pedunculis florum Dianthi culti, Shrewbury Brit. (Rev. W. Leighton).

241. **Phoma nebulosa** (Fr.) Mont. — Sacc. Syll. III, p. 135. — Var. **Cerastii** Pass. in Journ. hist. Nat. Bord. 1885, p. 135, Brun. Liste Sphærops. p. 17. — Sporulis bacillaribus, rectis, utrinque obtusis, 15 ≈ 2,5. 5320

Hab. in caulibus et ramulis Cerastii trivialis, Saintes Echillais Galliæ.

242. **Phoma antarctica** Speg. F. Pat. n. 165. — Peritheciis densiuscule sparsis, subepidermicis, lenticularibus, 100-140 μ. diam., atris, glabris, epidermide nonnihil nigrificata adnatis, ostiolo minutissimo, papillæformi donatis, coriacellis; contextu subindistincto, dense minutissimeque parenchymatico, olivaceo; sterigmatibus cylindraceis, breviusculis, 8-10 ≈ 2, apice acutis, hyalinis; sporulis cylindraceo-ellipticis v. ovoideis, 5-6 ≈ 1,5-2, utrinque acutis, grosse 1-guttulatis, hyalinis. 5321

Hab. ad folia emortua Azorellæ cujusdam in maritimis Gregory bay Patagoniæ.

243. **Phoma eryngiicola** Brun. Champ. Saint. p. 337. — Peritheciis sparsis vel approximatis, epidermide nigrificata tectis, intus albis, subglobosis, ostiolo vix prominulo; sporulis cylindraceo-oblongis, hyalinis, continuis, 2-guttatis, 10 ≈ 3. 5322

Hab. in caulibus emortuis Eryngii campestris, Saintes Galliæ.

244. **Phoma eryngiana** Delacroix Bull. Soc. Myc. Fr. 1890, fasc. IV. — Peritheciis immersis, 120 μ. lat., mycelio atro, guttulato, endophyllo, hyphis 6-7 μ. lat.; sporulis hyalinis, ovatis, utrinque attenuatis, biguttatis, 5 ≈ 2. 5323

Hab. in caulibus exsiccatis Eryngii campestris Saône et Loire Galliæ.

245. **Phoma subcomplanata** Cooke et Mass. in Grev. XV, p. 107. — Peritheciis gregariis, mox superficialibus, parvis, globosis, dein collapsis et cyathiformibus, nigris, 1/6-1/4 mm. diam.; sporulis subglobosis, continuis, hyalinis, numerosis, minutis, 3 ≃ 2. 5324

Hab. in caulibus Heraclei, Tunbridge Wells (C. G. Baker). — *Ph. complanatæ* affinis sed multo minor et sporulis minutissimis.

246. **Phoma clandestina** West. Bull. Acad. Brux. 1852, p. 117. — Peritheciis sparsis, exiguis, nigris, nitidulis, immersis, ostiolo papillato; sporulis ovoideis, minutissimis, 1-2-guttulatis, hyalinis, numerosissimis, demum madore cirrose expulsis. 5325

Hab. in caule interiore emortuo Heraclei Sphondylii pr. Courtrai Belgiii, — *Phoma Belangerii* West. in Syll. III, p. 169 citata sec. Streinz Nom. p. 444, loco Westendorpii citato non adest et verisimiliter cum *Ph. Bellynckii* eadem pag. revera occurrente fuit confusa. — *Phoma Podagrariæ* West. — Syll. III, p. 169 — est *Phyllachora Podagrariæ* (Roth) Karst., Syll. II, p. 615.

247. **Phoma alsatica** Br. et Har. Rev. Myc. 1891, p. 16. — Peritheciis numerosis, confertis, rugosis, depressis, sæpe confluentibus, nigris, 1/6-1/5 mm. diam., longe parallele seriatis; sporulis cylindraceis, obtusis, hyalinis, 4,5-6 ≃ 1,5. 5326

Hab. in caulibus siccis Peucedani alsatici, Riom Puy-de-Dôme Galliæ (Héribaud).

248. **Phoma Peucedani** Pass. in Brun. Champ. Saint. V, pag. 5. — Peritheciis sparsis, globuloso-applanatis vel lenticularibus, erumpentibus, nigris; sporulis bacillaribus, hyalinis, 5 μ. long., basidiis gracilibus multo longioribus fultis. 5327

Hab. in caulibus emortuis Peucedani officinalis, Beaugeay, Saintes Galliæ.

249. **Phoma microspora** Sacc. in Rev. Myc. 1885, p. 158. — Peritheciis seriatim dispositis, laxe gregariis, epidermide velatis, globulosis, atris 1/4 mm. diam.; sporulis ovoideis, perexiguis, 2-3 ≃ 1-2, hyalinis. 5328

Hab. in caule Athamanthæ siculæ in Algeria (Trabut).

250. **Phoma perpusilla** Karst. Symb. Myc. fenn. XIV, p. 23. — Peritheciis superficialibus, hemisphæricis, rotundatis vel oblongatis, astomis, atris, glabris, 0,1 mm. diam.; sporulis elongatis, hyalinis, 6-7 ≃ 1,5. 5329

Hab. in ferulis putrescentibus Anthrisci pr. Aboam Fenniæ.

251. **Phoma rubella** Cooke in Grevillea XIV, pag. 3 — Peritheciis 5330

collectis in maculis indeterminatis, semiimmersis, depressis, atris, minute papillatis; sporulis anguste ellipticis, enucleatis, continuis, hyalinis, 7 ≃ 2.

Hab. in caulibus emortuis Umbelliferarum, Kew. Britanniæ.

252. **Phoma Karstenii** Berl. et Vogl. Add. Syll. n. 4307, *Phoma microsperma* Karst. Symb. Myc. IV, pag. 153 (non Preuss). — Peritheciis gregariis, subcutaneis, demum erumpentibus, subsphæroideis, tandem poro pertusis, atris, circiter 0,2 mm. latis; sporulis elongatis, rectis vel curvulis, hyalinis, 2–4 ≃ 0,5. 5331

Hab. ad caules emortuos Umbelliferarum in regione Vasaënsi Fenniæ.

253. **Phoma olivaceo-pallens** Karst. Symb. XV, p. 153. — Peritheciis gregariis, subcutaneis, applanatis, orbicularibus, olivaceo- vel fusco-pallentibus, siccis et adultioribus nigrescentibus, poro sæpe pallescente pertusis, circiter 0,3 mm. latis; sporulis oblongatis, utrinque obtusis, rectis biguttulatis, 4–6 ≃ 2. 5332

Hab. ad caules emortuos Umbelliferarum in regione Vasaënsi Fenniæ.

254. **Phoma Galacis** Cooke in Grevillea XIV, p. 90. — Maculis irregularibus, pallide brunneis vel cinerescentibus, indistincte marginatis; peritheciis gregariis, minutis, 86 μ. diam., basi immersis, punctiformibus, atris, nitentibus; sporulis cylindraceis, utrinque rotundatis, 2-4-nucleatis, hyalinis, 12–15 ≃ 4. 5333

Hab. in foliis emortuis delapsisque Galacis aphyllæ, Kew Britanniæ.

255. **Phoma lirellata** Sacc. Syll. III, p. 118. — Var. **Centranthi** Brun. Liste Sphærops. p. 15. — Peritheciis sparsis vel in series parallelas congestis, subglobosis, compressis, subinde difformibus, nigris, tectis, dein subsuperficialibus, poro perspicuo pertusis, macula stromatica, oblongata, irregulari, atra vel atro-brunnea, sæpe linea nigra limitata, insidentibus; sporulis ovoideis vel ovoideo-oblongis, 6–8 ≃ 2-3, biguttulatis; basidiis filiformibus, 15–16 μ. longis. 5334

Hab. in caulibus emortuis Centranthi rubri, Saintes Galliæ.

256. **Phoma Chamænerii** Brunaud in Rev. Myc. 1886, pag. 140. — Peritheciis globuloso-compressis, sparsis vel subgregariis in series dispositis vel confluentibus, nigris, primum tectis, dein epidermidem ostiolo rumpentibus, macula plus minus nigrescente elongato-lanceolata, subcorticali, nigro-limitata insidentibus; sporulis oblongis, rectis, 8 ≃ 2–2,5, binucleatis, hyalinis; basidiis nullis vel obsoletis. 5335

Hab. in caulibus emortuis Epilobii angustifolii, Saintes Galliæ. — A *Ph. Epilobii* sporulis eguttulatis differt.

257. **Phoma Epilobii** Preuss. — Syll. III, p. 134. — Sec. Fautr. in Rev. Myc. 1890, p. 122, sunt sporulæ 10-13 ≃ 3, quadriguttatæ; basidia fasciculata 25 ≃ 3. Occurrit quoque in Epilobio tetragono, Noidan Galliæ.

258. **Phoma Onagracearum** Cooke in Grevillea XIII, p. 95. — Caulicola; peritheciis sparsis, cuticula leniter elevata, demum fissa tectis; sporulis ellipticis, binucleatis, 6-8 ≃ 3,5-4; basidiis brevibus. 5336

Hab. in caulibus Œnotheræ biennis et Epilobii angustifolii, Kew Britanniæ.

259. **Phoma Lythri** Cooke et Mass. Grev. XVI, p. 75. — Epiphylla; peritheciis sparsis vel gregariis, globosis, tectis, prominulis, demum erumpentibus, pertusis; sporulis globosis, hyalinis, 10 μ. diam. 5337

Hab. in foliis Lythri Hyssopifoliæ, Melbourne (Reader).

260. **Phoma Nepenthis** Cooke et Mass. in Grevillea XVIII, p. 73. — Peritheciis sparsis, immersis, membranaceis, pertusis; sporulis ellipsoideis, 2-guttatis, hyalinis, 7 ≃ 3,5; basidiis brevibus. 5338

Hab. in ascidiis Nepenthis, Readland Glasgow Britanniæ (D. A. Boyd).

261. **Phoma guaranitica** Speg. F. Guar. II, n. 159. — Peritheciis hinc inde laxe gregariis v. sparsis, primo epidermide velatis, dein sæpius nudis, e lenticulari subglobosis, 150–180 μ. diam., non vel vix convexulis, atris, opacis, glabris, ostiolo minuto, impresso perforatis, contextu indistincto, fuligineo; sporulis ellipticis v. ovoideis, 10-14 ≃ 5-6, sæpe granuloso-farctis, hyalinis. 5339

Hab. ad ramulos dejectos putrescentes Enckeæ Sieberi in dumetis prope Guarapi Brasiliæ.

262. **Phoma portulacoides** Brun. Champ. Saint. VII, p. 4. — Peritheciis sparsis, minutis, nigris, subnitentibus, intus albis, subglobosis, tectis, dein erumpentibus; sporulis ovoideis, minutissimis, 3 μ. long., eguttatis. 5340

Hab. in caulibus emortuis Obiones portulacoidis, Fouras pr. Saintes Galliæ.

263. **Phoma Polygonorum** Cooke in Grevill. XIV, p. 3. — Laxe gregaria; peritheciis minutis, punctiformibus, epidermide ostiolo minuto perforata tectis; sporulis obtuse ellipticis, continuis, hyalinis, distincte nucleatis, 12 ≃ 3. 5341

Hab. in caulibus Polygoni cuspidati, Kew Britanniæ.

264. **Phoma rheina** Thüm. et Boll. Fung. lit. austr. in Soc. Adr. Sc. 5342

Nat. 1885, p. 12, n. 440. — Peritheciis epiphyllis, minutis, gregariis, in macula subparva, subsinuosa, atris, semiimmersis, globosulis, ostiolo minimo; sporulis numerosissimis, minutissimis, ovoideis, utrinque rotundatis, simplicibus, enucleatis, achrois, 1,5 ≃ 1.

Hab. in foliis vivis v. languidis Rhei Rhapontici, Goritia.

265. **Phoma picea** (Pers.) Sacc. Syll. III, p. 140 — var. **Chenopodii** Karst. et Har. Rev. Myc. 1890, n. 47. — Sporulis botuliformibus vel elongatis, vulgo rectis, 2,5-3,5 ≃ 0,5-1. 5343

Hab. ad caules Chenopodii in Ohio Amer. bor. (Lesquereux).

266. **Phoma herbarum** Sacc. Syll. III, p. 133 — ***Ph. Tetragoniæ** Sacc. et Berl. in Rev. Myc. 1886. — Peritheciis minutis, sub epidermide nidulantibus, sparsis, ostiolo minuto, vix protuberante; sporulis ovoideis, quandoque biguttatis, 5 ≃ 2, hyalinis; basidiis non visis. 5344

Hab. in ramulis putrescentibus Tetragoniæ expansæ in Algeria.

267. **Phoma Mercurialis** Brunaud in Rev. Myc. 1886, pag. 140. — Peritheciis subglobulosis, depressis, diu epidermide tectis, demum erumpentibus, brunneo-nigris vel atris, pertusis; sporulis subovoideis, 8 ≃ 3, binucleatis, hyalinis; basidiis nullis vel obsoletis. 5345

Hab. in caulibus emortuis Mercurialis annuæ, Saintes Galliæ.

268. **Phoma macrocapsa** Trail Suppl. Myc. Scot. n. 3077. — Peritheciis subepidermicis, orbicularibus, 600–700 μ. diam., non ultra 250 μ. (ostiolo 100–150 μ. long. excluso) alt., atro-brunneis; sporulis hyalinis, oblongis, subrectis, 4 ≃ 1,5. 5346

Hab. in caulibus Mercurialis perennis in Scotia.

269. **Phoma tabifica** Prillieux Bull. Soc. Myc. Fr, fasc. I, 1891. — Peritheciis immersis, fuscis, rotundatis vel subapplanatis, densiuscule gregariis, 180 μ. circ. latis, poro papillato, 18–20 μ. lat. præditis; mycelio hyalino, parenchyma petioli infarciente; sporulis hyalinis, ovalibus, eguttulatis, 5-6 ≃ $3^1/_2$-4; basidiis non vel vix conspicuis. 5347

Hab. in macula dealbata fere totam paginam superiorem petioli folii Betæ vulgaris cultæ occupante; raro in maculis ex albido lutescentibus paginæ superioris folii ejusdem, in agris Galliæ satis frequens, æstate 1890.

270. **Phoma Humuli-japonici** Fautr. Rev. Myc. 1891, p. 130. — Peritheciis numerosis, aggregatis, tectis, erumpentibus, griseis, glo- 5348

bulosis, papillato-pertusis, nucleo roseo; sporulis oblongis, 10-13 ≈ 3,5-4.

Hab. in caulibus siccis Humuli japonici, Noidan Galliæ.

III. *In Monocotyledoneis.*

271. **Phoma plagia** Cooke et Mass. Grev. XVII, pag. 55. — Maculis determinatis, glaucescentibus, ellipticis vel confluentibus, margine lineato circumscripto; peritheciis minutissimis, atris, emergentibus; sporulis ellipticis, binucleatis, hyalinis, 8-9 ≈ 5. 5349

Hab. in foliis Palmarum, Daintree River Australiæ (Bailey).

272. **Phoma palmicola** Winter in Grev. XV, pag. 92. — Peritheciis sparsis vel gregariis, mox sine macula, mox in maculis atris, linearibus v. irregularibus, determinatis, usque ad 10 mm. long., interdum confluentibus, immersis, depresse subconicis, vertice papilliformi, demum pertuso erumpentibus, atris, membranaceis, 300-320 ≈ 120-123; sporulis numerosissimis, oblongo-fusoideis, utrinque acutiusculis, guttulis 2 magnis præditis, hyalinis, rectis, 6-7 ≈ 2,5. 5350

Hab. ad folia emortua Palmarum, Sao-Francisco Brasiliæ (Ule).

273. **Phoma Coryphæ** Cooke et Mass. Grev, XIX, p. 75. — Peritheciis laxe gregariis erumpentibus, conicis, basi insculptis, atris, papillatis, $^1/_3$-$^1/_4$ mm. diam.; sporulis arcte ellipticis, utrinque rotundatis, hyalinis, 12 ≈ 3. 5351

Hab. in petiolis Palmarum, Ceylon Indiæ.

274. **Phoma Pritchardiæ** C. et H. — Syll. III, p. 157. — ***P. coryphea** Sacc. F. rom. n. 38. — Peritheciis punctiformibus, gregariis, macula epiphylla albida insidentibus; sporulis fusoideis, curvulis, 9 ≈ 2,5, 6-guttulatis; basidiis bacillaribus sesquilongioribus. 5352

Hab. in foliis Coryphæ australis, Villa Patrizii Roma. — ***Ph. Phœnicis** Sacc. loc. cit.: peritheciis paullo majoribus, macula epiphylla sordida insidentibus; sporulis oblongo-fusoideis, 7 ≈ 2; basidiis bacillaribus hamatis sesquilongioribus. In foliis Phœnicis in hortis, Roma.

275. **Phoma Magnusii** Bomm. Rouss. Contr. Myc. Belg. III, p. 15. — Peritheciis copiosis, sparsis, nigris, lenticularibus, subepidermicis, ostiolo tantum erumpente, papillato; sporulis crebris, ellipsoideis, hyalinis, 2-guttatis, 6-7 ≈ 2,5. 5353

Hab. in utraque pagina foliorum Phœnicis dactyliferæ in horto botanico Gand Belgii (P. Magnus).

276. **Phoma cocoina** Cooke — Syll. III, pag. 156 — var. **Phœnicis** 5354

Brun. Esp. Sphærops. p. 1. — Peritheciis sparsis, globosis, nigris, tectis dein erumpentibus, reliquiis epidermidis cinctis; sporulis oblongis, hyalinis, 8–9 ≃ 3, biguttatis.

Hab. in foliis emortuis Phœnicis dactyliferæ, in horto botanico Rochefort Galliæ.

277. **Phoma cocophila** Speg. F. Puigg. n. 411. — Maculis candidis, elongatis, repando-sinuosis, subindeterminatis, 5–20 mm. long., 2–5 mm. lat.; peritheciis in maculis, laxe gregariis, epidermide velatis, non vel vix prominulis, atris, lenticularibus, 250 μ. diam., membranaceo-subcoriacellis, contextu parenchymatico, parum distincto; ostiolo vix papillulato; sporulis cylindraceis vel ellipsoideo-obovatis, 8-10 ≃ 2,5-3, rectis vel vix subinæquilateralibus, utrinque obtusiusculis ac sæpe minute 1-guttulatis, hyalinis, sterigmatibus cylindraceis, apice attenuato-obtusiusculis, 12-15 ≃ 2-2,5, concoloribus. 5355

Hab ad petiolos Cocoës sp. pr. Apiahy in Brasilia.

278. **Phoma Chamæropis** Cooke in Grevillea XIII, pag. 95. — Peritheciis erumpentibus, gregariis, subglobosis, atris, opacis, magnitudine inæqualibus, perforatis; sporulis ellipticis, obtusis, enucleatis, hyalinis, 4–5 ≃ 2. 5356

Hab. in petiolis Chamæropis aliarumque palmarum, Kew Britanniæ. — A *Ph. cocoina* non dissimilis, sed sporulis duplo minoribus.

279. **Phoma trina** Passer. Diagn. F. N. IV, n. 88. — Peritheciis subsparsis, tectis, punctiformibus, atris, contextu celluloso fuligineo; sporulis elongatis, utrinque rotundatis, triguttulatis, guttula intermedia septulum quasi mentiente, polaribus ampliusculis, hyalinis. 5357

Hab. in caulibus siccis Funkiæ cordatæ in horto botanico parmensi Ital. bor.

280. **Phoma Iridis** Cooke in Grev. XV, p. 108. — Peritheciis sparsis, punctiformibus, cuticula tectis, convexis, nigris; sporulis anguste ellipsoideis, 1-2-guttatis, utrinque obtusis, 7 ≃ 2; basidiis brevibus. 5358

Hab. in foliis Iridis fœtidissimæ, Somerton, Breinton et Kew in Britannia.

281. **Phoma Iridum** Sacc. in Mich. II. p. 126. — Peritheciis gregariis, subcutaneis, vix erumpentibus, globoso-lenticularibus, 1/3 mm. diam., ostiolo obtuso, sporulis oblongis, 10 ≃ 2 1/2 suffultis. 5359

Hab. in foliis Pseudacori, Toulouse Galliæ (Roumeguère).

282. **Phoma Symphyostemi** Speg. F. Fueg. n. 384. — Peritheciis matrice late cinerescenti-nigrificata insidentibus, epidermide velatis, 5360

lenticularibus 150–160 μ. diam., coriacellis, atris, glabris; ostiolo minuto, non vel vix papillulato; contextu densissimo, indistincto; sporulis parvulis ellipticis, utrinque obtusiusculis, 2–3 ≃ 1, minute 1-guttulatis, sæpius inæquilateralibus, hyalinis; sterigmatibus subconoideis, crassiusculis, 5–8 ≃ 1,5.

Hab. ad scapos emortuos Symphyostemi narcissoidis et Sisyrinchii filifolii prope Shammacus et Punta anegada Fuegiæ.

283. **Phoma Engleri** Speg. F. Guar. II, n. 158. — Peritheciis hinc inde sparsis, epidermide tectis, e globoso lenticularibus, 200–250 μ. diam., atris, glabris, membranaceo-coriacellis, subastomis; contextu parum distincto, subparenchymatico, atro; sporulis ellipticis, 5–7 ≃ 1,5–2, utrinque acutiuscule rotundatis, grosse 2-guttulatis, hyalinis. 5361

Hab. ad petiolos putrescentes Pothos pinnatifidæ in silvis prope Guarapì Brasiliæ.

284. **Phoma Acori** Cooke in Grevillea XIII, p. 95. — Foliicola; peritheciis gregariis, punctiformibus, minutis, numerosis, cuticula tectis, siccis minutissimis, membranaceis, brunneis; sporulis ovoideis vel ellipticis, obtusis, 6–8 ≃ 3. 5362

Hab. in foliis emortuis Acori Calami, sociâ *Leptosphæriâ acorellâ*, Totteridge, Kew Britanniæ.

285. **Phoma veratrina** Sacc. et Paol. Mycet. Sibir. p. 20, fig. 20. — Peritheciis laxe gregariis, epidermide velatis, dein erumpentibus, nigris, globoso-depressis, breve papillatis, $^1/_5$ mm. diam.; sporulis oblongis, utrinque rotundatis, rectis curvulisve 13–15 ≃ 3,5, 2-3-guttatis, hyalinis; basidiis subnullis. 5363

Hab. ad folia et caules Veratri albi in pratis prope Nicolskoje Sibiriæ. — Affinis *Ph. Pritchardiæ* et *Ph. macrothecæ*.

286. **Phoma tamicola** Cooke in Grevillea XIII, p. 95. — Caulicola; peritheciis gregariis, subglobosis, mox depressis, cuticula nigrescente, ostiolo minuto demum perforata tectis; sporulis obtuse fusiformibus, binucleatis, 9-10 ≃ 3. 5364

Hab. in caulibus Tami communis, Neatishead, Norfolk Britanniæ.

287. **Phoma Philesiæ** Speg. F. Fueg. n. 383. — Maculis nullis vel pallescentibus, indeterminatis; peritheciis epiphyllis, dense sparsis, immersis, epidermide tectis adnatisque, atris, lenticularibus, 150–160 μ. diam., levibus, glabris, coriaceo-membranaceis, ostiolo minutissimo impresso, contextu indistincto; sporulis cylindraceis v. cylin- 5365

draceo-ellipticis, utrinque obtuse rotundatis, 18-21 ≃ 5-6, guttulatis vel granuloso-farctis, hyalinis.

Hab. ad folia emortua Philesiæ buxifoliæ in Basket island Fuegiæ.

288. **Phoma Majanthemi** Peck 39 Rep. p. 44. — Peritheciis minutis, 5366
175-250 μ. lat., amphigenis, subglobosis, prominulis, nigris; sporulis oblongis, utrinque subtruncatis, hyalinis, 6,25-7,5 ≃ 3.

Hab. in foliis emortuis Majanthemi bifolii Elizabethtown Amer. bor.

289. **Phoma Cladodii** Cooke et Mass. in Grev. XVI, p. 6. — Peri- 5367
theciis amphigenis, numerosissimis, minutis, punctiformibus, subcuticularibus, nigris, dense gregariis, interdum totam folii superficiem occupantibus; sporulis amygdaliformibus, continuis, hyalinis; basidiis brevibus, 10 ≃ 5.

Hab. in cladodiis Rusci Hippoglossi, Kew Britanniæ.

290. **Phoma media** Ell. et Ev. Journ. Myc. 1889, p. 147. — Perithe- 5368
ciis maculam 6-8 cm. long., 1 cm. lat. occupantibus, magnis, 0,5 mm. diam., globoso-depressis vel leniter oblongis; ostiolo papilliformi mox late pertusis; sporulis fusoideis, rectis, hyalinis, 2-guttatis, acutis, 10-12 ≃ 2,5.

Hab. in caulibus emortuis Asparagi, Newfield, N.-Jersey Amer. bor. — Differt a *Ph. Asparagi* præcipue sporulis majoribus et acutis, a *Ph. lanceolata* sporulis dimidio minoribus.

291. **Phoma limnophila** Sacc., *Phoma Typhæ* Passer. Diagn. F. N. 5369
IV, n. 87, nec Pass. in Brun. — Peritheciis minutis, subglobosis, sparsis vel aggregatis, atris; contextu eximie celluloso, fumoso-violascente; sporulis ovalibus, rectis, 9-10 ≃ 3,5 ad apices non guttatis, hyalinis.

Hab. in foliis siccis Typhæ latifoliæ, Magnana pr. Fornovo in agro parmensi Ital. bor.

292. **Phoma Typhæ** Pass. in Brun. liste Sphærops. p. 20. — Perithe- 5370
ciis sparsis, punctiformibus, depressis, nigris, primo epidermide tectis dein liberis; sporulis cylindraceis, rectis, hyalinis.

Hab. in foliis Typhæ latifoliæ, sociâ *Pleosporâ Typhæ*, Rochefort Galliæ.

293. **Phoma juncicola** Brun. Champ. Saint. p. 338. — Peritheciis nu- 5371
merosis, conicis, minutissimis, erumpentibus; sporulis ovoideis, hyalinis, continuis, 4-5 ≃ 2,5-3.

Hab. in caulibus emortuis Junci acuti, Fouras prope Saintes Galliæ.

294. **Phoma abscondita** Passer. Diagn. F. N. IV, n. 90. — Peritheciis in matrice immutata omnino immersis, subglobosis, atris, ostiolo minutissimo, fusco, lente vix perspicuo; sporulis oblongis, utrinque rotundatis, pallidissime chlorino-hyalinis, 12,5-15 ≃ 3,5-4. 5372

Hab. in caulibus Scirpi Holoschœni, Vigheffio pr. Parma Ital. bor.

295. **Phoma depressula** Sacc. Bomm. et Rouss. Fl. Mycol. Belg. II, p. 29. — Peritheciis nigris, parum prominulis, numerosis, 100 μ. diam., poro pertusis, epidermide nigrificata et nitente tectis; sporulis 15-16 ≃ 4,5, hyalinis, granulosis, subclavatis; basidiis simplicibus, brevibus, monosporis. 5373

Hab. in foliis Scirpi cæspitosi, Westmalle Belgii.

296. **Phoma Holoschœni** Passer. Diagn. F. N. IV, n. 89. — Peritheciis punctiformibus, tectis, per epidermidem fissam vix erumpentibus, atris; sporulis elongato-subfusiformibus, rectis, continuis, polos versus guttulatis, melleis, 12-15 ≃ 4-5. 5374

Hab. in caulibus fracidis Scirpi Holoschœni, Vigheffio pr. Parma Ital. bor.

297. **Phoma Oryzæ** Cooke et Mass. in Grev. XVI, p. 15. — Peritheciis minutis, sparsis, epidermidem perforantibus, subglobosis, nigris; sporulis ovoideis, continuis, hyalinis, 3 ≃ 2; basidiis brevibus. 5375

Hab. in stramine ex Oryza, Calcutta.

298. **Phoma glumarum** Ell. et Tr. Journ. Myc. 1888, p. 123. — Peritheciis erumpenti-superficialibus, nigris, minutis, 90-120 μ. lat., supra pertusis; sporulis ellipsoideis, 3-4 ≃ 2-2,5, fumoso-hyalinis. 5376

Hab. ad glumas virentes Oryzæ sativæ, Starkville Miss. Amer. bor. (Tracy).

299. **Phoma necatrix** Thuem. Pilze d. Reispfl. p. 12. — Peritheciis numerosissimis, confluenti-aggregatis, semiimmersis, punctiformibus, atris, parvis, membranaceis; sporulis numerosis, ovatis v. ellipsoideis, eguttatis, hyalinis, 10-12 ≃ 6-8. 5377

Hab. in culmis, foliis vaginisque subvivis Oryzæ sativæ, Aquileja Ital. bor.

300. **Phoma Fuegiana** Speg. F. Fueg. n. 379. — Maculis nullis; peritheciis densiuscule sparsis v. subseriatis, atris, glabris, globoso-lenticularibus, 140-160 μ. diam., membranaceo-coriacellis; ostiolo minutissimo, papillulato, contextu parenchymatico, olivaceo; sporulis ellipticis v. ovoideis, utrinque attenuato-rotundatis, 4-5 ≃ 1-2, sæpe 1-guttulatis, rectis v. inæquilateralibus, hyalinis; sterigmatibus minutissimis, vix papillulatis. 5378

Hab. ad culmos, vaginas foliaque emortua Poæ Forsteri in Staten island Fuegiæ.

301. **Phoma Secalis** Prill. et Delacr. in Bull. Soc. Myc. V, p. 125. (1889). — Maculis folio vix pallidioribus; peritheciis ovalibus, circ. 120 ≃ 75; sporulis hyalinis, continuis, ovato-fusoideis, 2-3-guttatis, 14 ≃ 4; basidiis minutissimis. 5379

Hab. in vaginis jam flavescentibus Secalis Cerealis, Boissy-sous-St.-Yon Galliæ.

302. **Phoma festucina** Thuem. Pilz. d. Gazell. p. 5. — Peritheciis dense inordinate gregariis, subepidermicis, subconoideis, nigris, parvulis, contextu parenchymatico fuligineo; sporulis numerosissimis, breve cylindraceis utrinque rotundatis, eguttatis, hyalinis, 3,5-5 ≃ 2-2,2. 5380

Hab. in vaginis emortuis Festucæ erectæ in ins. Kerguelen.

303. **Phoma Lolii** Pass. Hedw. 1887, p. 26. — Peritheciis in matrice dealbata sparsis vel subgregariis, epidermide tectis, subsphæroideis, atris; sporulis, cylindraceis, rectis, utrinque obtusis, plurinucleolatis, hyalinis, 12-18 ≃ 2,5. 5381

Hab. in spicis aridis Lolii perennis pr. Parma Ital. bor.

304. **Phoma Patouillardi** Sacc. *Phoma microspora* Pat. in Har. Champ. Cap Horn p. 196, nec Sacc. — Peritheciis minutis, 100-130 μ. diam., laxe gregariis, primo epidermide tectis, dein poro pertusis, atro-brunneis; sporulis minutissimis, 3 ≃ 1, cylindraceis, hyalinis, numerosissimis. 5382

Hab. in foliis Graminaceæ (Triodiæ antarcticæ?) in ins. Horn (Hariot).

305. **Phoma gyneriicola** Cooke et Mass. in Grev. XVI, p. 7. — Peritheciis minutis, sparsis v. gregariis, mox superficialibus, membranaceis, non ultra 30 μ. diam., atro-brunneo, subgloboso; sporulis minutis, ellipsoideis, hyalinis, 3 ≃ 1. 5383

Hab. in foliis Gynerii argentei, Kew Britanniæ.

306. **Phoma Ammophilæ** Dur. et Mont. — Sacc. Syll. III, p. 166 (Verisimiliter). — Sporulæ ellipsoideo-oblongæ, 4-5 ≃ 1,5-2, hyalinæ.

307. **Phoma serialis** Pat. Bull. Soc. Myc. 1891, pag. 177. — Peritheciis erumpentibus seriatim dispositis, globoso-conoideis, apice pertusis, 200-300 μ. diam.; basidiis hyalinis, fusoideis, simplicibus, 30 μ. long.; sporulis ovoideis, hyalinis, 1-guttatis, 3 ≃ 2. 5384

Hab. in caulibus putrescentibus Arundinis (?), Quito Æquatoriæ.

308. **Phoma stagonosporioides** Trail Trans. Crypt. Scot. 1889, p. 44. 5385

— Peritheciis innatis, sparsis, depresso-globosis, papillatis, 120-150 μ. diam.; sporulis ellipsoideis 10-12 ≃ 3-4, hyalinis, tenuiter 4-guttulatis.

Hab. in foliis emortuis Phragmitis communis Loch Achray Scotiæ occid. — Ad *Stagonosporam* accedit.

IV. *In Acotyledoneis*

309. **Phoma sphærosperma** Karst. in Hedw. 1885, p. 74. — Perithe- 5386
ciis sparsis, epidermide tectis, sphæroideo-applanatis, atro-fuscis, basi fusca, ostiolo rudi, epidermidem perforante, glabris, 0,2 mm. latis; sporulis sphæroideis, hyalinis vel dilutissime flavido-hyalinis, eguttulatis, levibus, 10-15 μ. diam.

Hab. in caulibus putrescentibus Equiseti fluviatilis ad Mustiala Fenniæ.

310. **Phoma Equiseti** Desm. Sacc. Syll. III, p. 168. — Sporulæ 7,2 ≃ 3 (Ang. Roumeguére).

311. **Phoma Selaginellæ** Cooke et Mass. in Grev. XVI, p. 102. — 5387
Peritheciis sparsis, immersis, parvis, punctiformibus, nigris; sporulis ellipsoideis, continuis, hyalinis, 5 ≃ 3.

Hab. in stipite Selaginellæ Willdenowii, in horto kewensi Britanniæ.

312. **Phoma Crepini** Karst. Sphærops. Fenn. p. 57. — Peritheciis 5388
sparsis, sphæroideis, poro pertusis, atris, circ. 0,2 mm. lat.; sporulis elongatis, continuis, hyalinis, 3-4 ≃ 1.

Hab. in bracteis emortuis Lycopodii annotini in Fennia. — Status spermogonicus *Leptosphæriæ Crepini.*

313. **Phoma Lichenis** Passer. Diagn. F. N. V, n. 29. — Perithe- 5389
ciis thallo adnatis, subglobosis, atris, nitidis; contextu membranaceo, parenchymatico; sporulis bacillaribus, tenuissimis 5 μ. long.

Hab. in thallo Lichenis sterilis, forte Parmeliæ pulverulentæ in ramis siccis Fraxini, Vigheffio in agro parmensi Italiæ borealis.

314. **Phoma portentosa** Cooke et Mass. Grev. XVI, p. 2. — Sparsa; 5390
peritheciis innatis, cuticulâ denigratâ tectis, variabilibus, papillatis, atris, nitidis; sporulis cylindraceis, utrinque obtusis, continuis, hyalinis, 8 ≃ 2.

Hab. in pileo Polypori portentosi, Beveridge, V., Australiæ (Campbell).

315. **Phoma Tremellæ** Pat. Bull. Soc. Myc. 1888, p. 120. — Perithe- 5391
ciis nigris, sparsis, semiimmersis, punctiformibus, 60-100 μ. diam.,

globosis, ostiolatis, membranaceis, parenchymaticis, intus albis; sporulis numerosissimis, minutis, 1,5-2 μ., ovoideis, hyalinis.

Hab. ad superficiem Tremellæ cujusdam vetustæ, Atures Venezuelæ.

316. **Phoma parasitica** Ell. et Ev. Journ. Myc. 1888, p. 102. — Peritheciis sparsis, minutis, nigris; sporulis oblongo-ellipsoideis, subinæquilateralibus, 2-guttatis, hyalinis, 7-9 ≃ 3. 5392

Hab. parasitica ad Taphrinam cœrulescentem in foliis vivis Quercus coccineæ, Newfield, N. J. Amer. bor.

317. **Phoma Colpomatis** Rich. Cat. Champ. Marn. p. 547. — Peritheciis sphæricis, superficialibus, nigris; sporulis ovoideis vel breve subcylindricis, 2,8 μ. long. 5393

Hab. in medio Colpomate quercino vetusto v. circumcirca in silvis St-Amand Galliæ. — *Colpomatis* spermogonium censetur.

318. **Phoma scleroticola** Pat. Bull. Soc. Myc. 1888, p. 120, t. XX, f. 4. — Peritheciis superficialibus, numerosissimis, confertis vel sparsis, brunneo-nigris, subglobosis, 100 μ. diam., ostiolatis, intus albis, in villositate e parte substrati exteriore efformata nidulantibus; sporulis numerosis, hyalinis, ovoideis, minutis, 1-2. 5394

Hab. ad Sclerotium umbilicatum, Atures Venezuelæ.

319. **Phoma Laminariæ** Cooke et Mass. in Grev. XVIII, p. 53. — Peritheciis gregariis, nigris, apice poro minuto pertusis; sporulis ellipsoideis, hyalinis, 8-10 ≃ 3. 5395

Hab. in frondibus putrescentibus Laminariæ, West Kilbride, Ayrshire Britanniæ (D. A. Boyd).

V. *Coprophilæ.*

320. **Phoma anserina** March. Champ. copr. VI, p. 11. — Peritheciis sparsis, globulosis, superficialibus, contextu laxiuscule parenchymatico, brunneo-fuligineis, minutis, 90 μ. d., ostiolo papillato perforatis; sporulis minutis, subovoideis, 2,2 ≃ 1,8, 1-guttatis, in globulum album expulsis, hyalinis, basidiis obsoletis. 5396

Hab. in stercore anserino Werbomont Belgii. — Socia adest species altera paullo major; peritheciis globoso-depressis, 120 μ. diam., late pertusis; sporulis ellipsoideis, sæpius 2-guttatis, 5-5,5 ≃ 2-2,5 hyalinis, *Phoma Marchalii* dicenda.

321. **Phoma fimeti** Brun. Champ. Saint. p. 338.. — Peritheciis sparsis, erumpentibus, nigris, minutissimis; sporulis ovoideis, hyalinis, continuis, 4-5 ≃ 2-2,5. 5397

Hab. in fimo Arietis, Fouras pr. Saintes Galliæ.

MACROPHOMA (Sacc.) Berl. et Vogl. Add. Syll. p. 306 et in Atti Soc. Veneto-Trentina 1886, p. 172, Sacc. Syll. III, p. 90 ut subg. (Etym. *macros* longus, magnus et *Phoma*). *Phoma, Sphæropsis, Sphæronema* auctorum pro parte. — Perithecia subcutanea, dein erumpentia, membranacea, subcoriacea v. subcarbonacea, globosa, erostrata, ostiolo minuto, subinde obsoleto. Sporulæ ovoideæ, fusoideæ vel cylindraceæ, majusculæ vel magnæ, 15 μ. v. amplius longæ, sæpe granulosæ, continuæ, hyalinæ, rarissime biguttatæ. Basidia filiformia, subinde brevissima vel obsoleta, constanter simplicia.

A. *Eu-Macrophoma* sporulis ovoideis

a) *In Dicotyledoneis.*

α. Ramicolæ.

1. **Macrophoma macrosperma** (Karst.) Berl. et Vogl. Add. Syll. n. 429, et in Atti Soc. Veneto-Trentina 1886, p. 173. — *Phoma* Syll. III, pag. 73.
2. **Macrophoma excelsa** (Karst.) Berl. et Vogl. Add. Syll. n. 430 et in Atti Soc. Veneto-Trentina 1886, p. 173. — *Phoma* Syll. III, p. 74.
3. **Macrophoma Cupressi** (Cooke et Harkness) Berl. et Vogl. Add. 5398 Syll. n. 4341 et in Atti Soc. Veneto-Trentina 1886, p. 173. — *Sphæropsis Cupressi* Cooke et Hark. in Grevillea XIII, p. 17. — Erumpens; peritheciis atris, obtusis, primum tectis, demum erumpentibus, epidermide circumambiente arcte adhærentibus; sporulis ellipticis, continuis, hyalinis, protoplasmate granuloso farctis, 30 × 10.

   Hab. in cortice Cupressi macrocarpæ in California (Harkness).
4. **Macrophoma Peckiana** (Thüm.) Berl. et Vogl. Add. Syll. n. 471 et in Atti Soc. Veneto-Trentina 1886, p. 174. — *Phoma* Syll. III, p. 80.
5. **Macrophoma Ampelopsidis** (C. et E.) Berl. et Vogl. Add. Syll. n. 466 et in Atti Soc. Veneto-Trentina 1886, p. 174. — *Phoma* Syll. III, pag. 79.
6. **Macrophoma dryina** (B. et C.) Berl. et Vogl. Add. Syll. n. 570 et in Atti Soc. Veneto-Trentina 1886, p. 174. — *Phoma* Syll. III, p. 96.
7. **Macrophoma Scheidweileri** (West.) Berl. et Vogl. Add. Syll. n. 543 et in Atti Soc. Veneto-Trentina 1886, p. 174. — *Phoma* Syll. III, p. 92.

8. **Macrophoma salicaria** (Sacc.) Berl. et Vogl., Add. Syll. n. 4342 et in Atti Soc. Veneto-Trentina 1886, p. 175, *Phoma* Sacc. in Mori Enum. dei Funghi Modena (Giorn. Bot. Ital. 1886, n. I, p. 22). — Peritheciis laxe gregariis, subcutaneo-erumpentibus, globoso-depressis, $^1/_3$-$^1/_2$ mm. diam., obtuse papillatis v. subinde fere umbilicatis, nigris; sporulis ellipsoideis, utrinque obtuse rotundatis, 28-30 ≃ 12-14, hyalinis, nubilosis vel guttulatis. 5399

Hab. in ramis emortuis Salicis in horto botanico mutinensi Ital. bor.

9. **Macrophoma corticicola** (Preuss) Berl. et Vogl. Add. Syll. n. 653 et in Att. Soc. Veneto-Trentina 1886, p. 175. — *Phoma* Syll. III, p. 110.

10. **Macrophoma corylina** (Thüm.) Berl. et Vogl. Add. Syll. n. 591 et in Atti Soc. Veneto-Trentina 1886, p. 175. — *Phoma* Syll. III, p. 99.

11. **Macrophoma tertia** (Cooke) Berl. et Vogl. Add. Syll. n. 562 et in Atti Soc. Veneto-Trentina 1886, p. 175. — *Phoma* Syll. III, p. 95.

12. **Macrophoma Laburni** (West.) Berl. et Vogl. Add. Syll. n. 394 et in Atti Soc. Veneto-Trentina 1886, p. 175, t. II, f. I. — *Phoma* Syll. III, pag. 68.

13. **Macrophoma persicina** (B. et C.) Berl. et Vogl. Add. Syll. n. 434 et in Atti Soc. Veneto-Trentina 1886, p. 176. — *Phoma* Syll. III, pag. 74.

14. **Macrophoma Juncei** Pass. in Brun. Mat. Myc. Saint. pag. 22. — Peritheciis approximatis, secus fibras matricis parallele et seriatim dispositis, epidermide innatis, lenticularibus, nigris; sporulis oblongo-fusoideis, nubilosis, hyalinis, 15 ≃ 5. 5400

Hab. in ramis emortuis Spartii juncei Soubise, Saintes Galliæ.

15. **Macrophoma spartiicola** Berl. et Vogl. F. Anconit. pag. 17, tab. I, fig. 10. — Peritheciis gregariis vel dense sparsis, minutis, conoideo-depressis, poro latiusculo pertusis, 100-150 μ. diam., contextu laxe parenchymatico, fuligineo, epidermide omnino tectis, centro albo-punctatis; sporulis fusoideo-cylindraceis vel oblongis, utrinque attenuatis et fere papillatis, 20-25 ≃ 8-9, granulosis vel guttatis, exosporio crassiusculo præditis, basidiis brevissimis, crassiusculis fultis, hyalinis. 5401

Hab. in ramulis emortuis Spartii juncei pr. Ancona Italiæ, — A *Ph. Spartii* differt magnitudine sporularum.

16. **Macrophoma Xanthoxyli** Ell. et Ev. in Journ. Myc. 1888, p. 102. 5402
— Peritheciis immersis, seriatis, intus albis, epidermidem haud rumpentibus et vix perspicuis; sporulis oblongo-fusoideis, 20-27 ≃ 6.

Hab. in ramis emortuis Xanthoxyli, Louisiana Amer. bor. (Langlois).

17. **Macrophoma Fraxini** Delacr. Bull. Soc. Myc. 1890, pag. 140. — 5403
Peritheciis gregariis, atris, globosis, sub cortice tumefacta colloque perithecii perforato nidulantibus, 300 μ. circ. diam.; nucleo albo; sporulis hyalinis, ovatis v. ovato-cylindraceis v. interdum subreniformibus, guttulatis granulatisque, 24-25 ≃ 10,5-12; basidiis rectis v. leniter curvatis, acutiusculis, 10-20 ≃ 2.

Hab. in cortice ramulorum exsiccatorum Fraxini excelsioris Joinville-le-Pont pr. Paris Galliæ. — *M. salicariæ* affinis.

18. **Macrophoma Tamaricis** Passer. Diagn. F. N. IV, n. 44. — Peri- 5404
theciis gregariis, per corticis fissuram longitudinalem erumpentibus, globosis, atris; sporulis fusiformibus, integris, hyalinis, 18-25 ≃ 5-6, endoplasmate granuloso; basidiis filiformibus.

Hab. in ramulis Tamaricis gallicæ in horto botanico parmensi Ital. bor.

19. **Macrophoma conica** Passer. Diagn. F. N. IV, n. 91. — Perithe- 5405
ciis sparsis vel subgregariis, tectis, globosis; ostiolo conico erumpente; sporulis oblongo-fusiformibus, intus granulosis, hyalinis, 18-25 ≃ 5-6.

Hab. in ramulis Rubi Hoffmeisteriani in horto botanico parmensi Ital. bor.

20. **Macrophoma minuta** Berl. F. moric. App. p. 60 et f. VI, n. 15, 5406
tab. 48, fig. 18-21. — Peritheciis gregariis v. subsparsis, exiguis, $^1/_5$-$^1/_4$ mm. diam., contextu parenchymatico, fuligineo, ostiolo papillato præditis, epidermide tectis, dein erumpentibus et fere liberatis, rugosiusculis, intus albo-farctis, globoso-conoideis vel sursum parum depressis, 25-26 ≃ 5-6, nubilosis v. granulosis, hyalinis; basidiis sporulâ brevioribus, 14-16 ≃ 3-4.

Hab. in ramulis emortuis Mori albæ, Padova Ital. bor. — Perithecia exigua, sporulæ proportione magnæ.

21. **Macrophoma Camelliæ** Pass. Rev. myc. 1887, p. 145. — Perithe- 5407
ciis sparsis, erumpentibus, atris, subglobosis, contextu celluloso fuligineo; sporulis oblongo-ellipsoideis, continuis, hyalinis, intus granulosis vel crasse 1-nucleatis, 20-30 ≃ 8-12, basidiis longioribus suffultis.

Hab. in ramulis aridis Camelliæ cultæ, Parma. — An, observante Pass., *Diplodia* immatura?

22. **Macrophoma Citri** Cefotti Mic. Montp. p. 18. — Peritheciis subgregariis epidermide tectis, demum erumpentibus, globoso-oblongis, atris, $^1/_4$-$^1/_3$ mm. diam., contextu parenchymatico; sporulis ellipsoideis utrinque obtusis, 25-28 ≃ 8-10, hyalinis, minute granulosis; basidiis brevibus, 10-14 μ. long. 5408

Hab. in ramis emortuis Citri tripteræ prope Montpellier Galliæ.

23. **Macrophoma cornina** (Peck) Sacc. *Sphæropsis* Peck 32 Rep. p. 38. — Peritheciis numerosis, non confertis, minutis, epidermide stellatim fissa fere tectis, nigris, ostiolo lato; sporulis oblongis obtusis, hyalinis, 30-40 ≃ 12,5-13,75. 5409

Hab. in ramis emortuis Corni circinatæ, Sprakers Amer. bor. — Habitus *Sphæropsidis pensylvanicæ.*

24. **Macrophoma acervata** Pat. Bull. Soc. Myc. 1888. p. 121. — Subcutanea, dein emergens, epidermidis laciniis cincta; peritheciis pluribus in stroma nigrum, tuberculoso-mamillosum orbiculare 2-4 mm. diam. confluentibus, intus albis, sepimentis parenchymaticis flavidis separatis; sporulis in quoque perithecio seu loculo numerosis, ovoideis deorsum attenuatis, hyalinis, crasse tunicatis, granulosis, 18-25 ≃ 10-15; basidiis longis, hyalinis, simplicibus. 5410

Hab. in corticibus emortuis, Atures Venezuelæ. — «Meo sensu potius *Dothiorellæ* species».

25. **Macrophoma thujana** Cooke et Mass. in Grev. XVI, p. 7. — Peritheciis sæpe sparsis, subcutaneis, globosis, epidermidem elevantibus et demum perforantibus; sporulis ellipsoideis, continuis, hyalinis, 25 × 10. 5411

Hab. in ramis Thuyæ, Kew Britanniæ.

β. Caulicolæ.

26. **Macrophoma xanthina** (Sacc.) Berl. et Vogl. Add. Syll. n. 702 et in Atti Soc. Veneto-Trentina 1886, pag. 176. — *Phoma* Syll. III, pag. 118.

27. **Macrophoma Heuffelii** (B. et C.) Berl. et Vogl. Add. Syll. n. 790 et in Atti Soc. Veneto-Trentina 1886, p. 176. — *Phoma* Syll. III, pag. 132.

28. **Macrophoma Janiphæ** (Thüm.) Berl. et Vogl. Add. Syll. n. 833 et in Atti Soc. Veneto-Trentina 1886, p. 176. — *Phoma* Syll. III, pag. 141.

29. **Macrophoma Ricini** (Cooke) Berl. et Vogl. Add. Syll. n. 834, et in Atti Soc. Veneto-Trentina 1886, p. 176, tab. III, fig. XV. — *Phoma* Syll. III, p. 141.

30. **Macrophoma acanthina** (Sacc. et Roum.) Berl. et Vogl. Add. Syll. n. 764 et in Atti Soc. Veneto-Trentina 1886, p. 177. — *Phoma* Syll. III, pag. 128.

31. **Macrophoma Lupini** (Cooke et Hark.) Berl. et Vogl. Add. Syll. 5412
n. 4343 et in Atti Soc. Veneto-Trentina 1886, p. 177. — *Phoma Lupini* Cooke et Hark. in Grevillea XIII, pag. 111. — Caulicola; peritheciis gregariis, subcutaneis, subglobosis, atris, epidermide nitida tectis; sporulis elongato-ellipticis, binucleatis, hyalinis, 20. μ. longis.

Hab. in caule Lupini in California (Harkness).

32. **Macrophoma Malcolmiæ** (Sacc.) Berl. et Vogl. Add. Syll. n. 4344 5413
et in Atti Soc. Veneto-Trentina 1886, p. 177, *Phoma Malcomiæ* Sacc. in Rev. Myc. 1886. — Peritheciis gregariis, subcutaneo-erumpentibus, atris, globoso-papillatis; sporulis ellipsoideis v. ovoideis, 14-18 ≃ 7-8, utrinque obtusis, granulosis, hyalinis.

Hab. in caule Malcolmiæ ægyptiacæ in Algeria.

33. **Macrophoma Keckii** (Thüm.) Berl. et Vogl. Add. Syll. n. 535, et in Atti Soc. Veneto-Trentina 1886. — *Phoma* Syll. III, p. 90.

34. **Macrophoma Exaci** Pat. Bull. Soc. Myc. 1887, p. 130. — Peri- 5414
theciis sparsis, 0,5-1 mm. lat., globulosis, nigris, opacis, primo subepidermicis, dein superficialibus; ostiolo mamillato, prominulo; sporulis maximis, numerosis, 20-28 ≃ 13-14, regulariter ovoideis, basi attenuatis vel medio compressis, hyalinis, granuloso-farctis; basidiis apice latis, basi acuminato-attenuatis; sporulis subæquilongis.

Hab. in caulibus emortuis Exaci, Congo.

35. **Macrophoma subconica** Ell. et Ev. Journ. Myc. 1889, p. 147. — 5415
Peritheciis innato-erumpentibus, conicis, 0,5-1 mm. altis; sporulis ellipsoideis, hyalinis, 20-22 ≃ 14-16; basidiis tenuibus sporulas subæquantibus.

Hab. in caulibus emortuis Solani nigri, St. Martinsville La. Amer. bor. — Adest ibidem forma in *Alocasia esculenta*.

36. **Macrophoma Ehretiæ** Cooke et Mass. in Grev. XVIII, p. 34. — 5416
Peritheciis globoso-depressis, sparsis, tectis, atris, ostiolo pertusis; sporulis ellipticis, hyalinis, utrinque rotundatis, 20-22 ≃ 10, basidiis bacillaribus, simplicibus vel furcatis, suffultis.

Hab. in ramis Ehretiæ formosanæ, N. Coast of Formosa.

37. **Macrophoma Convolvuli** Pat. Bull. Soc. Myc. 1887, pag. 130. — 5417

Peritheciis sparsis, 0,5 mm. diam., nigris, superficialibus v. semiimmersis, ovoideis vel depresso-disciformibus; ostiolo centrali, prominulo, acuto; sporulis magnis, 21-23 ≃ 10-13, ovoideis vel uno apice attenuatis, hyalinis, granuloso-farctis; basidiis basi incrassatis, apice attenuatis, sporulas vix æquantibus.

Hab. in caulibus siccis Convolvuli, Congo.

38. **Macrophoma Ipomœæ** Passer. Diagn. F. N. IV, n. 93. — Peritheciis sparsis, subglobosis, atris, subtectis; sporulis elongato-ellipticis vel cuneiformibus aut ovatis, endoplasmate granuloso, non guttulatis, hyalinis, basidiis crassis æquilongis vel longioribus fultis, 12-22 ≃ 5-7,5. 5418

Hab. in caulibus Ipomœæ panduratæ in horto botanico parmensi Ital. bor.

γ. Foliicolæ.

39. **Macrophoma Taxi** (Berk.) Berl. et Vogl. Add. Syll. n. 606 et in Atti Soc. Veneto-Trentina 1886, pag. 178. — *Phoma* Syll. III, pag. 102.

40. **Macrophoma Candollei** (Berk. et Br.) Berl. et Vogl. Add. Syll. n. 624 et in Atti Soc. Veneto-Trentina 1886, p. 178. — *Phoma* Syll. III, p. 105.

41. **Macrophoma Mirbelii** (Fr.) Berl. et Vogl. Add. Syll. n. 625 et in Atti Soc. Veneto-Trentina 1886, p. 179, tab. II, fig. V. — *Phoma* Syll. III, p. 105.

42. **Macrophoma ilicella** (Sacc. et Penz.) Berl. et Vogl. Add. Syll. n. 628 et in Atti Soc. Veneto-Trentina 1886, p. 179, t. II, f. VIII. — *Phoma* Sacc. Syll. III, p. 106.

43. **Macrophoma australis** (Cooke) Berl. et Vogl. Add. Syll. n. 4345, *Phoma australis* Cooke in Grevillea XV, pag. 17. — Epiphylla; maculis fuscis, ellipticis, brunneo-cinctis, demum confluentibus; peritheciis atris, punctiformibus, semiimmersis; sporulis elongato-ellipticis, hyalinis, granulosis, 20-30 ≃ 6; basidiis brevibus. 5419

Hab. in foliis Eucalypti, Melbourne Australiæ (H. Watts).

44. **Macrophoma leucostigma** (D. C.) Berl. et Vogl. Add. Syll. n. 623 et in Atti Soc. Veneto-Trentina 1886, p. 179. — *Phoma* Syll. III, p. 105.

45. **Macrophoma petiolata** (Cooke) Berl. et Vogl. Add. Syll. n. 675 et in Atti Soc. Veneto-Trentina 1886, p. 179. — *Phoma* Syll. III, pag. 114.

46. **Macrophoma nobilis** (Thüm.) Berl. et Vogl. Add. Syll. n. 663 et in Atti Soc. Veneto-Trentina 1886, pag. 180. — *Phoma* Syll. III, pag. 112.

47. **Macrophoma Araliæ** Sacc. et Berl. in Rev. Myc. 1886, Berl. et 5420
Vogl. Add. Syll. n. 4346 et in Atti Soc. Veneto-Trentina 1886, p. 180, tab. V, fig. II. — Phyllogena; peritheciis maculis ochraceo-fuscis insidentibus, atris, conoideis, utramque paginam foliorum occupantibus; sporulis ovoideis vel subcylindraceis, utrinque rotundatis, guttiligeris vel protoplasmate granuloso farctis, 18–20 = 6-8, basidiis simplicibus, continuis suffultis.

Hab. in utraque pagina foliorum viventium? Araliæ, Algeria.

48. **Macrophoma millepunctata** (Penz.) Berl. et Vogl. Add. Syll. n. 622 et in Atti Soc. Veneto-Trentina 1886, p. 180, t. II, f. X. — *Phoma* Syll. III, p. 105 (non Lév.).

49. **Macrophoma glœosporioides** (Sacc.) Berl. et Vogl. Add. Syll. n. 693 et in Atti Soc. Veneto-Trentina 1886, p. 180, t. III, fig. XIII. *Phoma glœosporioides* Sacc. Syll. III, p. 116.

50. **Macrophoma collabens** (Cooke) Berl. et Vogl. Add. Syll. n. 4347 5421
et in Atti Soc. Veneto-Trentina 1886, pag. 181, *Phoma collabens* Cooke in Grevillea 1885, pag. 94. — Epiphylla; peritheciis sparsis, maculas orbiculares, atras, in foliis et ramulis efformantibus, rugosis, depressis subsuperficialibus ¼ mm. diam.; sporulis ellipticis, continuis hyalinis enucleatis, 15-18 = 5; basidiis indistinctis.

Hab. in foliis vivis Pruni lusitanicæ, Kew Britanniæ.

51. **Macrophoma fragilis** (Mont.) Berl. et Vogl. Add. Syll. n. 869 et in Atti Soc. Veneto-Trentina 1886, p. 181. — *Phoma* Syll. III, p. 146.

52. **Macrophoma surinamensis** (B. et C.) Berl. et Vogl. Add. Syll. n. 976 et in Atti Soc. Veneto-Trentina 1886. p. 181. — *Phoma* Syll. III, p. 163.

53. **Macrophoma Rauï** (Peck) Berl. et Vogl. Add. Syll. n. 845 et in Atti Soc. Veneto-Trentina 1886, pag. 181. — *Phoma* Syll. III, pag. 143.

54. **Macrophoma Cordylines** (Thüm.) Berl. et Vogl. Add. Syll. n. 965 et in Atti Soc. Veneto-Trentina 1886, p. 182. — *Phoma* Syll. III, pag. 162.

55. **Macrophoma Vincæ** (Curr.) Berl. et Vogl. Add. Syll. n. 862 et in Atti Soc. Veneto-Trentina 1886, p. 182. — *Phoma* Syll. III, pag. 145.

56. **Macrophoma megasperma** (Speg.) Berl. et Vogl. Add. Syll. n. 509 et in Atti Soc. Veneto-Trentina 1886, p. 182. — *Phoma* Syll. III, pag. 86.

57. **Macrophoma Malpighiæ** (Mont.) Berl. et Vogl. Add. Syll. n. 688 et in Atti Soc. Veneto-Trentina 1886, p. 182. — *Phoma* Syll. III, pag. 186.

58. **Macrophoma? phyllogenata** (Link) Berl. et Vogl. Add. Syll. n. 699 et in Atti Soc. Veneto-Trentina 1886, p. 183. — *Phoma* Syll. III, pag. 117.

59. **Macrophoma erumpens** (B. et C.) Berl. et Vogl. Add. Syll. n. 701 et in Atti Soc. Veneto-Trentina 1886, p. 183. — *Phoma* Syll. III, pag. 118.

60. **Macrophoma carpinicola** Delacroix Bull. Soc. Myc. Fr. 1891, pag. 107, f. I. — Peritheciis immersis, fusco-olivaceis, latiuscule pertusis, 180 ≃ 140; sporulis oblongis, basi attenuatis, plerumque curvulis, 24 ≃ 6,5; basidiis fasciculatis 20 ≃ 1,5, fundum perithecii tantum occupantibus. 5422

Hab. in foliis exsiccatis Carpini Betuli, Saint Emilaud Galliæ.

61. **Macrophoma Oleandri** Passer. Diagn. F. N. IV, n. 92. — Epiphyl- 5423
la; peritheciis sparsis nunquam circinnatis, tectis, globoso-depressis, atris; sporulis ellipticis, integris, hyalinis, 20-25 ≃ 10, basidiis bacillaribus, subæquantibus fultis.

Hab. in foliis dejectis Nerii Oleandri in horto botanico parmensi Ital. bor.

62. **Macrophoma Ailanthi** Brun. Champ. Saint. p. 338. — Peritheciis 5424
parallele seriatis, adproximatis, linearibus, innatis, dein rimoso-erumpentibus; sporulis ovato-oblongis, 14 ≃ 7-8, hyalinis, 2-guttatis; basidiis filiformibus, apice arcuatis, 25-30 μ. long.

Hab. in petiolis Ailanthi glandulosæ, Saintes Galliæ.

63. **Macrophoma japonica** Pass. Rev. Myc. 1887, p. 145. — Perithe- 5425
ciis hypophyllis, sparsis, globosis, epidermide velatis, minute papillatis, contextu celluloso, fuligineis, nucleo albo; sporulis ellipsoideis hyalinis, intus granulosis, vel 1-2-guttatis, 25–30 ≃ 10, basidiis subæquilongis crassiusculis fultis.

Hab. in foliis aridis adhuc pendulis Camelliæ cultæ, Parma Ital. bor.

64. **Macrophoma Labiatarum** Pat. Bull. Soc. Myc. 1888, pag. 121. — 5426
Peritheciis globoso-depressis, pezizoideis, 0,5–1 mm. diam., astomis (!), hyphulis brevibus, brunneis, continuis vel septatis; sporu-

lis ovoideis, crasse tunicatis, majusculis, 26-30 ≃ 12-18; basidiis prælongis, clavatis, hyalinis, 50 μ. long.

Hab. in foliis Labiatarum, Caracas.

65. **Macrophoma Volkameriæ** Pat. Bull. Soc. Myc. 1887, p. 129. — Peritheciis punctiformibus, semiglobosis, nigris, nitentibus, glabris; ostiolo centrali, minuto; contextu brunneo, e cellulis radiatim elongatis efformato; sporulis magnis, ovoideis, 12-14 ≃ 10, basi attenuatis; basidiis sporulâ 2-3-plo longioribus. 5427

Hab. in foliis viventibus Volkameriæ, Franceville Congo.

66. **Macrophoma sinensis** Passer. Diagn. F. N. IV, n. 45. — Peritheciis solitariis, subcutaneis, per epidermidem longitrorsus fissam vix erumpentibus, fuscis; sporulis oblongis subfusiformibus, rectis, eguttulatis, hyalinis, 13-20 ≃ 5, sterigmatibus crassiusculis, rectis, æquantibus vel longioribus fultis. 5428

Hab. in foliis emortuis Cunninghamiæ sinensis in horto botanico parmensi Ital. bor.

δ. In fructibus, seminibus, fimo etc.

67. **Macrophoma samaricola** (Sacc.) Berl. et Vogl. Add. Syll. n. 910 et in Atti Soc. Veneto-Trentina 1886, p. 183. — *Phoma* Sacc. Syll. III, pag. 153.

68. **Macrophoma Triacanthi** (Sacc.) Berl. et Vogl. Add. Syll. n. 875 et in Atti Soc. Veneto-Trentina 1886, p. 184. — *Phoma* Sacc. Syll. III, pag. 147.

69. **Macrophoma clitoricarpa** (Cooke) Berl. et Vogl. Add. Syll. n. 872 et in Atti Soc. Veneto-Trentina 1886, p. 183. — *Phoma* Syll. III, pag. 147.

70. **Macrophoma Malorum** (Berk.) Berl. et Vogl. Add. Syll. n. 908 et in Atti Soc. Veneto-Trentina 1886, pag. 184. — *Phoma* Syll. III, pag. 152.

71. **Macrophoma seminalis** (B. et C.) Berl. et Vogl. Add. Syll. III, n. 886 et in Atti Soc. Veneto-Trentina 1886, p. 184. — *Phoma* Syll. III, pag. 149.

72. **Macrophoma Pandani** (Lév.) Berl. et Vogl. Add. Syll. n. 939 et in Atti Soc. Veneto-Trentina 1886, p. 184. — *Phoma* Syll. III, pag. 157.

73. **Macrophoma micromegala** (B. et C.) Berl. et Vogl. Add. Syll. n. 428 et in Atti Soc. Veneto-Trentina 1886, p. 185. — *Phoma* Syll. III, pag. 73.

74. **Macrophoma fimicola** (West.) Berl. et Vogl. Add. Syll. n. 1010 et in Atti Soc. Veneto-Trentina 1886, p. 185. — *Phoma* Syll. III, pag. 160. 5429

75. **Macrophoma acinorum** Pass. N. G. B. I. 1890, n. 1, pag. 48. — Maculis subdiscoideis, fuscis; peritheciis sparsis vel subgregariis, punctiformibus, erumpentibus, fuscidulis, nitidis, acutis; contextu submembranaceo, minute celluloso; sporulis elongato-fusiformibus, integris, nubilosis, hyalinis, pluriguttatis, 20-28 ≃ 6-7,5; basidiis filiformibus, sporulas subæquantibus. 5430

Hab. in baccis maturis Vitis viniferæ, Vigheffio pr. Parmam Ital. bor.

76. **Macrophoma flaccida** (Vial. et Rav.) Cavara Bitt. Rot. pag. 27, tab. V, fig. 11-12, *Phoma* Vial. et Rav. Black-Rot. pag. 81 c. icon. — Peritheciis sparsis, globoso-depressis, subepidermicis, atris, ostiolo prominulo albicante; sporulis fusoideis, utrinque acutiusculis, hyalinis, 16-18 ≃ 5-6; basidiis bacillaribus, sporulá brevioribus. 5431

Hab. in baccis siccis Vitis viniferæ in Pyrenæis et Stradella et Voghera Italiæ. — *Phomæ rimisedæ* affinis, sed ostiolo epapillato, sporulis et basidiis minoribus diversa.

77. **Macrophoma Byrsonimæ** Pat. Bull. Soc. Myc. 1888, p. 121. — Peritheciis nigris, globulosis, ostiolatis, initio immersis, dein inter epidermidis rimas conspicuis; sporulis ovoideis v. fusoideis, 20-30 ≃ 8-10; basidiis linearibus sporulam subæquantibus. 5432

Hab. in fructibus Byrsonimæ crassifoliæ, Puerto Zamuro Venezuelæ.

78. **Macrophoma pinea** Passer. Diagn. F. N. IV, n. 94. — Peritheciis minutis, erumpentibus, globosis, atris, nucleo albo; sporulis elongato-fusiformibus, continuis, hyalinis, 22,5 ≃ 7,5; basidiis longiusculis. 5433

Hab. in squamis strobili Pini austriacæ in horto botanico parmensi Ital. bor.

79. **Macrophoma magnifructua** (Peck) Sacc., *Phoma* Peck 40 Rep. p. 59. — Peritheciis minutis, 120-150 μ. diam., sparsis, subglobosis, erumpentibus, nigris; sporulis oblongo-fusoideis, 23-30 ≃ 7-10; basidiis brevibus. 5434

Hab. in conis Thujæ occidentalis, Keene Essex county Amer. bor.

80. **Macrophoma Passerinii** Sacc., *Sphæropsis Lagenariæ* Pass. in Erb. critt. ital. II, n. 1197, an et Thüm.? — Peritheciis carbona- 5435

ceis, subglobosis tectis dein ostiolo obtuso erumpentibus; sporulis oblongis, navicularibus, apicibus acutis v. rotundatis, integris, endoplasmate opaco hyalinis.

Hab. in pericarpio arido Lagenariæ vulgaris, in horto bot. pr. Parmam Ital. bor.

b) In Monocotyledoneis parasiticæ.

81. **Macrophoma caricina** (Thüm.) Berl. et Vogl. Add. Syll. n. 980 et in Atti Soc. Veneto-Trentina 1886, p. 185. — *Phoma* Syll. III, p. 164.

82. **Macrophoma crustosa** Sacc. et Berl. in Misc. Myc. II, p. 30 et 5436
Berl. et Vogl. Add. Syll. n. 4348, et in Atti Soc. Veneto-Trentina 1886, pag. 185, t. III, fig. XX. — Peritheciis ad nodos culmorum dense crustaceo-aggregatis, nigris, globulosis, vix papillatis, $^1/_5$ mm. diam.; sporulis oblongo-ellipsoideis, 28-32 = 10-12, granulosis, hyalinis; basidiis filiformibus, paullo brevioribus suffultis.

Hab. in culmis Tritici sativi ad nodos, Fiumicello Ital. bor. — *Macrophomæ Sacchari* affinis.

83. **Macrophoma Sacchari** (Cooke) Berl. et Vogl. Add. Syll. n. 994 5437
et in Atti Soc. Veneto-Trentina 1886, p. 186. — *Phoma* Syll. III, p. 166.

84. **Macrophoma Palmarum** (Cooke) Berl. et Vogl. Add. Syll. n. 947 et in Atti Soc. Veneto-Trentina 1886, p. 186. — *Phoma* Syll. III, p. 157.

85. **Macrophoma Gladioli** (Cooke) Berl. et Vogl. Add. Syll. n. 933 et in Atti Soc. Veneto-Trentina 1886, p. 186. — *Phoma* Syll. III, p. 159.

86. **Macrophoma brevipes** (Penz. et Sacc.) Berl. et Vogl. Add. Syll. n. 957 in in Atti Soc. Veneto-Trentina 1886, p. 186, t. III, f. XVI. — *Phoma* Syll. III, p. 160.

87. **Macrophoma Hippoglossi** (Mont.) Berl. et Vogl. Add. Syll. n. 972 et in Atti Soc. Veneto-Trentina 1886, p. 187. — *Phoma* Syll. III, p. 162.

88. **Macrophoma Musæ** (Cooke) Berl. et Vogl. Add. Syll. n. 969 et in Atti Soc. Veneto-Trentina 1886, p. 187. — *Phoma* Syll. III, p. 163.

89. **Macrophoma Cocos** Passer. Diagn. F. N. IV, n. 95. — Perithe- 5438
ciis crebre sparsis, tectis, minute pustuliformi-erumpentibus, ostiolo fusco vix visibili; sporulis oblongis, elliptico-lanceolatis v. pirifor-

mibus, hyalinis, 10-20 ≃ 6-7, endoplasmate granuloso opaco; basidiis crassiusculis; sporulis subæquantibus.

Hab. in petiolis foliorum emortuorum Cocos flexuosæ in horto botanico parmensi Ital. bor.

90. **Macrophoma Macrochloæ** Trab. in Roum. F. Gall. exs. n. 4079. 5439
— Peritheciis immersis nigris globulosis microstomis, primo epidermide tectis, dein erumpentibus; sporulis globoso-ovoideis, 14-16 ≃ 9-12, guttulatis, hyalinis; basidiis teretibus, 15-16 ≃ 5-6.

Hab. in foliis Macrochloæ tenacissimæ in vase submersis, Elkantara pr. Constantine Algeriæ (L. Trabut).

91. **Macrophoma Phœnicum** Sacc. F. Rom. n. 45, f. 6. — Peritheciis 5440
gregariis, innatis, atris, 1/4 mm. diam., globosis, ostiolo erumpente; sporulis tereti-oblongis, curvulis, utrinque rotundatis, medio subinde constrictulis, 15-18 ≃ 6-7, intus granulosis, hyalinis; basidiis dimidio brevioribus, bacillaribus.

Hab. in foliis emortuis Phœnicum in hortis, Roma.

92. **Macrophoma bolbophila** Sacc. F. Rom. n. 46, f. 7. — Peritheciis 5441
laxe gregariis, epidermide velatis, globulosis, obtusis, majusculis, nigris, 1/2 mm. diam.; sporulis ovato-oblongis, rectis curvulisve, 18-21 ≃ 4-4,5, utrinque obtusulis, hyalinis; basidiis obclavato-ampulliformibus, 8-9 ≃ 3, hyalinis.

Hab. in squamis foliorum Crini asiatici in horto botanico, Roma.

d) In Acotyledoneis.

93. **Macrophoma? sphærosperma** (Karsten) Berl. et Vogl. Add. Syll. 5442
n. 4349 et in Atti Soc. Veneto-Trentina 1886, p. 187, *Phoma sphærosperma* Karsten in Hedw. 1885, p. 74. — Peritheciis sparsis, epidermide tectis, sphæroideo-applanatis, atro-fuscis, basi fuscis, ostiolo rudi, epidermidem perforante, glabris, vix 2 mm. lat.; sporulis sphæroideis, hyalinis v. dilutissime flavido-hyalinis, eguttulatis, levibus, 10-12 μ. diam.

Hab. in caulibus putrescentibus Equiseti fluviatilis ad Mustiala Fenniæ.

B. *Cylindrophoma* Berl. et Vogl.: sporulis cylindraceis v. tereti-fusoideis.

a) In Dicotyledoneis.

α. Ramicolæ.

94. **Macrophoma rimiseda** (Sacc.) Berl. et Vogl. Add. Syll. n. 462 et

in Atti Soc. Veneto-Trentina 1886, p. 188, t. III, f. XXI. — *Phoma* Syll. III, p. 78.

95. **Macrophoma longispora** (Thüm.) Berl. et Vogl. Add. Syll. n. 465 et in Atti Soc. Veneto-Trentina 1886, p. 188. — *Phoma* Syll. III, pag. 79.

96. **Macrophoma albifructua** (Peck) Berl. et Vogl. Add. Syll. n. 4350 5443 et in Atti Soc. Veneto-Trentina 1886, p. 188, *Phoma albifructua* Peck in 38 Rep. St. Mus. p. 9. — Peritheciis numerosis, 500-800 μ. latis, conoideis vel subhemisphæricis, sæpe irregularibus, 2-3 confluentibus, erumpentibus, atris; sporulis oblongo-fusiformibus, utrinque acutis, 2-4-nucleatis, 16-20 ≃ 5-6, hyalinis, in globulum album expulsis.

Hab. in cortice emortuo Aceris rubri, Karner Amer. bor.

97. **Macrophoma endophlæa** (Sacc.) Berl. et Vogl. Add. Syll. n. 571 et in Atti Soc. Veneto-Trentina 1886, p. 189, t. II, f. III. — *Phoma* Syll. III, p. 90.

98. **Macrophoma Corticis** (Fuck) Berl. et Vogl. Add. Syll. n. 446 et in Atti Soc. Veneto-Trentina 1886, p. 189. — *Phoma* Syll. III, pag. 76.

99. **Macrophoma fusigera** (B. et C.) Berl. et Vogl. Add. Syll. n. 455 et in Atti Soc. Veneto-Trentina 1886, p. 189. — *Phoma* Syll. III, pag. 77.

100. **Macrophoma Mantegazziana** (Penz.) Berl. et Vogl. Add. Syll. 5444 n. 618 et in Atti Soc. Veneto-Trentina 1886, p. 193, *Phoma* Syll. III, p. 104. — ***M. Ægles** Sacc. et Berl. in Rev. Myc. 1886 et in Atti Soc. Veneto-Trentina 1886, pag. 193, t. II, f. II. — Peritheciis sparsis, majusculis, epidermide velatis; sporulis elongatis, 19-22 ≃ 4-5, hyalinis; basidiis sporulâ dimidio minoribus, hyalinis, simplicibus.

Hab. in spinis ramorum Ægles, Algeria. — Affinis *Macrophomæ Mantegazzianæ* Penz., a qua basidiis brevioribus recedit. Areolas dealbatas, ochraceo-cinctas, sæpe incolit.

101. **Macrophoma Baculum** (Ger.) Berl. et Vogl. Add. Syll. n. 537 et in Atti Soc. Veneto-Trentina 1886, p. 189. — *Phoma* Syll. III, pag. 91.

β. Caulicolæ.

102. **Macrophoma bacillaris** (Sacc.) Berl. et Vogl. Add. Syll. n. 795 et in Atti Soc. Veneto-Trentina 1886, p. 190. — *Phoma* Sacc. Syll. III, pag. 134.

103. **Macrophoma Solierii** (Mont.) Berl. et Vogl. Add. Syll. n. 962 et in Atti Soc. Veneto-Trentina 1886, pag. 190, t. III, fig. XIX. — *Phoma* Syll. III, p. 161.

104. **Macrophoma clavuligera** (B. et C.) Berl. et Vogl. Add. Syll. n. 397 et in Atti Soc. Veneto-Trentina 1886, p. 190. — *Phoma* Syll. III, pag. 69.

105. **Macrophoma Artemisiæ** (Kalch. et Cooke) Berl. et Vogl. Add. Syll. n. 735 et in Atti Soc. Veneto-Trentina 1886, p. 190. — *Phoma* Syll. III, p. 123.

106. **Macrophoma filamentosa** (Cooke) Berl. et Vogl. Add. Syll. n. 949, in Atti Soc. Veneto-Trentina 1886, p. 191. — *Phoma* Syll. III, pag. 159.

107. **Macrophoma pulchrispora** (P. et C.) Sacc, *Sphæropsis pulchrispora* Peck et C. 32 Rep. p. 38. — Peritheciis minutis, sparsis, subprominulis, epidermide tectis, nigris; sporulis oblongis vel cylindraceis, obtusis, rectis vel curvis, 3-5-guttatis, hyalinis, 15-20 × 5-6,25. 5445

Hab. in caule emortuo Polygoni, Buffalo Americæ borealis (Clinton).

108. **Macrophoma cylindrica** Passer. Diagn. F. N. V, n. 30. — Peritheciis subgregariis, tectis, tandem erumpentibus et matricem infuscantibus, contextu minute celluloso, atro; sporulis cylindricis, rectis, eguttulatis, utrinque rotundatis, 12,5-17 × 1,5-2; basidiis non visis. 5446

Hab. in ramulo emortuo Pulicariæ viscosæ, Vigheffio pr. Parmam Ital. bor.

γ. Foliicolæ.

109. **Macrophoma parca** (B. et Br.) Berl. et Vogl. Add. Syll. n. 592 et in Atti Soc. Veneto-Trentina 1886, p. 191. — *Phoma* Syll. III, pag. 100.

110. **Macrophoma Strobi** (Berk. et Br.) Berl. et Vogl. Add. Syll. n. 603 et in Soc. Veneto-Trentina 1886, p. 171. — *Phoma* Syll. III, pag. 101.

111. **Macrophoma acuaria** (Cooke) Berl. et Vogl. Add. Syll. n. 595 et in Atti Soc. Veneto-Trentina 1886, p. 191. — *Phoma* Syll. III, pag. 100.

112. **Macrophoma phacidiella** (Sacc.) Berl. et Vogl. Add. Syll. n. 631 et in Atti Soc. Veneto-Trentina 1886, p. 1911 t. II, f. VII. — *Phoma* Syll. III, p, 106.

113. **Macrophoma cylindrospora** (Desm.) Berl. et Vogl. Add. Syll. n. 671 et in Atti Soc. Veneto-Trentina 1886, p. 192, t. II, f. XII, — *Phoma* Syll. III, p. 113.

114. **Macrophoma viticola** (Cooke) Berl. et Vogl. Add. Syll. n. 653 et in Atti Soc. Veneto-Trentina 1886, p. 192, — *Phoma* Syll. III, pag. 110. — Diversam *Phomam viticolam* meam cl. Cooke, ob homonymiam, *Ph. Viniferæ* vocavit (cfr. supra p. 152) sed immerito, quia præsens sit *Macrophoma*. Vigat ergo nomen *Ph. viticolæ*, nec *Ph. Viniferæ*.

115. **Macrophoma cerasina** (Cooke) Berl. et Vogl. Add. Syll. n. 4351 et 5447
in Atti Soc. Veneto-Trentina 1886, p. 193, *Phoma cerasina* Cooke in Grevillea 1886, p. 90. — Epiphylla; peritheciis punctiformibus, densissime gregariis, semiimmersis, atris, nitidis, poro pertusis; sporulis subcylindricis, utrinque rotundatis, rectis, enucleatis, hyalinis, 15-16 × 3,5.

Hab. in foliis emortuis Pruni Lauro-cerasi, Aiken in Carol. infer.

116. **Macrophoma maculiformis** (C. et Hark.) Sacc., *Sphæropsis* C. 5449
et H. Grev. IX, pag. 82. — Epiphylla; peritheciis exiguis, atris, subnitidis, in maculas suborbiculares congestis; sporulis cylindraceis utrinque obtusis, continuis, hyalinis, 15 × 3,5.

Hab. in foliis Arbuti Menziesii in California (Harkness).

117. **Macrophoma mucipara** (Penz. et Sacc.) Berl. et Vogl. Add. Syll. n. 648 et in Atti Soc. Veneto-Trentina 1886, p. 192, t. II, f. XI. — *Phoma* Syll. III, p. 109.

118. **Macrophoma Molleriana** (Thüm.) Berl. et Vogl. Add. Syll. n. 650 et in Atti Soc. Veneto-Trentina 1886, p. 193. — *Phoma* Syll. III, pag. 110.

119. **Macrophoma æquivoca** (Ces.) Berl. et Vogl. Add. Syll. n. 953 et in Atti Soc. Veneto-Trentina 1886, p. 194. — *Phoma* Syll. III, p. 159.

120. **Macrophoma crateriformis** (Dur. et Mont.) Berl. et Vogl. Add. Syll. n. 666 et in Atti Soc. Veneto-Trentina 1886, p. 194. — *Phoma* Syll. III, pag. 112.

δ. In fructibus, floribus etc.

121. **Macrophoma cassiocarpa** (Cooke) Berl. et Vogl. Add. Syll. n. 876 et in Atti Soc. Veneto-Trentina 1886, p, 195. — *Phoma* Syll. III, pag. 147.

122. **Macrophoma dalmatica** (Thüm.) Berl. et Vogl. Add. Syll. n. 928

et in Atti Soc. Veneto-Trentina 1886, p. 196. — *Phoma* Syll. III, pag. 156.

123. **Macrophoma Oleæ** (D. C.) Berl. et Vogl. Add. Syll. n. 667 et in Soc. Veneto-Trentina 1886, p. 197, t. II, f. IX. — *Phoma* Syll. III, pag. 112.

124. **Macrophoma Calotropidis** (Thüm.) Berl. et Vogl. Add. Syll. n. 676 et in Atti Soc. Veneto-Trentina 1886, p. 198. — *Phoma* Syll. III, p. 114.

125. **Macrophoma hyalina** (B. et B.) Berl. et Vogl. Add. Syll. n. 516 et in Atti Soc. Veneto-Trentina 1886, p. 198. — *Phoma* Syll. III, pag. 88.

126. **Macrophoma reniformis** (Vial. et R.) Cavara Dissecc. Vite p. 25, 5449
t. V, f. 5, 8, 13, *Phoma* Vial. et Rav. Le Blak-Rot. p. 84 c. ic. — Peritheciis sparsis, epidermide tectis, globosis, atro-fuscis, poro albido pertusis; sporulis cylindraceis, rectis v. curvulis, utrinque obtusis, hyalinis, granuloso-farctis, 22-28 × 6-8; basidiis brevibus.

Hab. in fructibus siccis Vitis viniferæ, Hérault Galliæ et Stradella, Casteggio et Codevilla Italiæ. — Habitus *Macrophomæ rimisedæ* et *M. longisporæ*.

127. **Macrophoma nitens** (Sacc. Rouss. et Bomm.) Berl. et Vogl. Add. Syll. n. 899 et in Atti Soc. Veneto-Trentina 1886, p. 196. — *Phoma* Syll. III, p. 151.

128. **Macrophoma Citrulli** (B. et C.) Berl. et Vogl. Add. Syll. n. 885 et in Atti Soc. Veneto-Trentina 1886, p. 196. — *Phoma* Syll. III, pag. 149.

129. **Macrophoma Lagenariæ** (Thüm.) Berl. et Vogl. Add. Syll. n. 882 et in Atti Soc. Veneto-Trentina 1886, p. 196. — *Phoma* Syll. III, pag. 148.

130. **Macrophoma Granati** (Sacc.) Berl. et Vogl. Add. Syll. n. 459 et in Atti Soc. Veneto-Trentina 1886, p. 197. — *Phoma* Sacc. Syll. III, pag. 78.

131. **Macrophoma fallax** (Berk.) Berl. et Vogl. Add. Syll. n. 951 et in Atti Soc. Veneto-Trentina 1886, pag. 197. — *Phoma* Syll. III, pag. 156.

b) In Monocotyledoneis.

A. Culmicolæ.

132. **Macrophoma elongata** (B. et C.) Berl. et Vogl. Add. Syll. n. 946 et in Atti Soc. Veneto-Trentina 1886, p. 194. — *Phoma* Syll. III, p. 158.

133. **Macrophoma lanceolata** (C. et Ell.) Berl. et Vogl. Add. Syll. n. 967 et in Atti Soc. Veneto-Trentina 1886, p. 194, t. III, f. XVIII. — *Phoma* Syll. III, p. 162.

B. Foliicolæ et glumicolæ.

134. **Macrophoma smilacina** (Peck) Berl. et Vogl. Add. Syll. n. 955 et in Atti Soc. Veneto-Trentina 1886, n. 195. — *Phoma* Syll. III, p. 160.

135. **Macrophoma Caricis** (Fr.) Berl. et Vogl. Add. Syll. n. 979 et in Atti Soc. Veneto-Trentina 1886, pag. 195. — *Phoma* Syll. III, pag. 164.

136. **Macrophoma graminella** (Sacc.) Berl. et Vogl. Add. Syll. n. 996 et in Atti Soc. Veneto-Trentina 1886, p. 195, t. III, f. XVII. — *Phoma* Syll. III, p. 166.

137. **Macrophoma Hennebergii** (Kühn) Berl. et Vogl. Add. Syll. n. 999 et in Atti Soc. Veneto-Trentina 1886, p. 197. — *Phoma* Syll. III, pag. 167.

APOSPHÆRIA Berk. — Syll. III, p. 169.

1. **Aposphæria rugulosa** Sacc. Fung. ven. V, p. 179. — Peritheciis 5450
gregariis, majusculis, globosis, ruguloso-tuberculatis, atris, ostiolo minutissimo, papillato, demum perforato; sporulis minutissimis, ellipsoideis, 2 ≃ 1,5, subhyalinis.

Hab. in ligno putri Carpini Betuli, Vittorio Ital. bor. — Status spermogonicus *Ohleriæ rugulosæ*.

2. **Aposphæria multiformis** Karst. in Hedw. 1887, p. 126. — Peri- 5451
theciis sparsis v. laxe gregariis, erumpenti-superficialibus, forma valde variis, rotundatis, oblongatis, conoideis, angulatis, 0,1-0,2 mm. lat.; sporulis fusoideo-oblongatis, rectis, eguttulatis, hyalinis, 4-5 ≃ 2.

Hab. in ligno vetusto Quercus in regione Aboënsi Merimasku Fenniæ. — Ab *Aposphæria allantella* peritheciis numquam depressis, sporulis etc. differt.

3. **Aposphæria peregrina** Karst. Symb. Myc. Fenn. XXVI, p. 30. — 5452
Peritheciis sparsis, erumpenti-superficialibus, rotundatis, nunc conoideis, nunc deplanatis, levibus, nitentibus, atris, dein poro pertusis, nucleo albo, punctiformibus; sporulis oblongatis, rectis, vulgo 2-guttulatis, hyalinis, 2,5-4 ≃ 1-1,5 muco persistente involutis.

Hab. in ligni durioris betulini superficie dealbata pr. Kola

Lapponiæ rossicæ. — Affinis *Aposphæriæ muciferæ*, *Aposphæriæ minutulæ* et *Ap. arcticæ*.

4. **Aposphæria Caricæ** Passer. Diagn. F. N. IV, n. 97. — Peritheciis 5453
sparsis v. subgregariis, minutis, nudis v. interdum velo rubescente tectis, globosis, atris, minute papillatis; sporulis fusiformibus, integris, obscure bi-triguttulatis, hyalinis, 6–7,5 × 2; basidiis non visis.

Hab. in ramulo denudato Fici Caricæ, Parma Ital. bor.

5. **Aposphæria freticola** Speg. F. Pat. n. 167. — Peritheciis spar- 5454
sis v. laxe hinc inde gregariis, ex ovoideo piriformibus, 160–180 μ. diam., basi matrici insculptis, atris, carbonaceis, levissimis, glaberrimis, subnitentibus; contextu indistincto; sterigmatibus parvulis, e bacillari subclavulatis, 5–12 × 1, apice obtusis, hyalinis; sporulis minutissimis, ellipticis, utrique rotundatis ac grosse 1-guttulatis, 2,5 = 1, hyalinis.

Hab. ad ramos emortuos Fagi antarcticæ in silvis pr. Punta Arenas Patagoniæ.

6. **Aposphæria citrispora** Speg. F. Fueg. n. 386. — Peritheciis spar- 5455
sis v. hinc inde 2-5-aggregatis superficialibus globulosis 180-200 μ. diam., atris, glabris subrugulosis, astomis?, coriaceis; contextu indistincto; sporulis ovoideo- v. globuloso-citriformibus, utrinque v. inferne tantum acutatis, 10-13 × 7-9, hyalinis, sterigmatibus clavulatis, 10-15 × 1-2, simplicibus, fultis, paraphysibus multo longioribus, filiformibus, obvallatis.

Hab. in schidiis fagineis vetustis in silvis pr. Agaia in Hoste island Fuegiæ.

7. **Aposphæria trivialis** Speg. F. Fueg. n. 389. — Peritheciis hinc 5456
inde in ligno denudato dense gregariis, sæpius plagulas atras, majusculas, elongatas efficientibus, globulosis, 150-180 μ. diam., atris, glabris, subcarbonaceis; ostiolo minutissimo, vix papillulato; contextu indistincto; sporulis ellipticis vel elliptico-cylindraceis, utrinque obtusis, 5-8 = 3, hyalinis, eguttulatis.

Hab. in schidiis fagineis putrescentibus in Staten island et pr. Slogget bay Fuegiæ.

8. **Aposphæria pulchella** Speg. F. Fueg. n. 388. — Peritheciis ligno 5457
denudato, extus cinerescenti-dealbato, intus roseo-virgatulo, laxe insculptis, prominulis, conoideis 100-130 μ. diam., ostiolo minuto, papillulato ornatis, coriaceo-membranaceis, in sicco subcollabascentibus, atris, glabris; contextu indistincto; sporulis cymbiformibus, utrinque acutiusculis, 3–4,5 = 1-1,5, primo hyalinis dein fuscidulis.

Hab. ad ramos emortuos decorticatos fagineos prope Slogget bay Fuegiæ. — Species sporulis fuscidulis ad gen. *Coniothyrium* accedens.

9. **Aposphæria minuta** Berl. F. Moric. f. VI, n. 18, t. 9, f. 13-16, *Ph. Mori* Thüm. M. U., nec Mont. — Peritheciis gregariis inter fibras ligno nidulantibus, minutis, 100-150 μ. diam., contextu molli, parenchymatico, fuligineo, globosis dein sursum applanatis, demum umbilicatis rimose erumpentibus; ostiolo minutissimo pertuso; sporulis minutissimis, innumeris, allantoideis, hyalinis, 2,5-3 = 0,5; basidiis non visis. 5458

Hab. in ligno Mori albæ, Lyon Galliæ (J. Therry).

10. **Aposphæria Ulmi** Karst. Symb. Myc. Fenn. XXVIII, pag. 42. — Peritheciis gregariis v. confertis, erumpenti-superficialibus, globulosis, subtiliter rugulosis, opacis, dein poro sat lato apertis, circ. 0,3 mm. diam.; sporulis cylindraceis, curvulis, raro rectis, 2-4-guttulatis, hyalinis, 14-16 = 3. 5459

Hab. in ligno ramorum decorticatorum Ulmi effusæ, Mustiala Fenniæ.

11. **Aposphæria citricola** Penz. et Sacc. Monogr. Agr. pag. 361, t. XXXIII, f. 3. — Peritheciis superficialibus v. vix basi ligno insculptis, gregariis, exiguis, globoso-depressis, carbonaceis, aterrimis; basidiis nullis; sporulis minutissimis, oblongis, utrinque rotundatis, hyalinis, eguttatis, 1,5-2 = 0,6-0,7. 5460

Hab. in ligno vetusto nigrescente Citri, Port'Ercole in Monte Argentano Toscana.

12. **Aposphæria compressa** Passer. Diagn. F. N. IV, n. 96. — Peritheciis sparsis v. gregariis superficialibus, ligno nigrificato innatis, sphæroideis, ostiolo compresso, lophiostomaceo; sporulis tenuissimis, bacillaribus, rectis vel curvulis 5 μ. long. 5461

Hab. in ligno indurato Persicæ vulgaris, Vigheffio pr. Parmam Ital. bor. — An *Lophidii compressi* (Pers.) spermogonium?

13. **Aposphæria Amelanchieris** Karst. Fragm. Myc. XXIV, p. 3. — Peritheciis gregariis, sphæroideo-hemisphæricis v. oblongatis v. globuloso-difformibus, in ligno ramorum cortice orbatorum immersis dein emergentibus, nigricantibus, vertice obtusis v. conoideo-attenuatis, sæpe minute papillatis, basi tenuissimis, pallescentibus, albofarctis, 0,2-0,3 mm. diam.; sporulis oblongatis, eguttulatis, rectis, hyalinis, 4-5 = 1,5-2. 5462

Hab. ad ramos decorticatos dejectos Amelanchieris vulgaris in horto mustialensi Fenniæ.

14. **Aposphæria longipes** Passer. Diagn. F. N. IV, n. 43. — Perithe- 5463
ciis superficialibus, sparsis v. subgregariis, pusillis, subglobosis, minute ostiolatis; sporulis cylindricis, eguttulatis, rectis, hyalinis, 5–6 ≃ 1,5, basidiis filiformibus, multoties longioribus, fultis.

Hab. in ramo Chimonanthi fragrantis in horto botanico parmensi Ital. bor.

15. **Aposphæria inophila** (Berk.) Sacc. Syll. III, p. 175. — Var. **opaca** 5464
Karst. Symb. Myc. Fenn. XXIII, p. 10. — Peritheciis superficialibus, confertis, nonnumquam concrescentibus, verticalibus oblongatis, rotundatis, ovoideis vel conoideis, poro pertusis, atris, 0,1 mm. diam. v. ultra; sporulis elongatis, rectis, hyalinis, 2-3 ≃ 0,5–1 mm.

Hab. in asseribus Aceris platanoidis ad Mustiala Fenniæ.

16. **Aposphæria nitidiuscula** Karst. in Hedwigia 1884, pag. 6. — 5465
Peritheciis sphæroideis, concavis vel cupulato-collapsis, subsuperficialibus, astomis, atris, nitidis, exiguis; sporulis elongatis, rectis, hyalinis, 3–4 ≃ 0,5.

Hab. in ramulis siccis Aceris platanoidis in parœcia Nerpes Fenniæ.

17. **Aposphæria Leptospermi** Cooke in Grev. XIX, p. 91. — Perithe- 5466
ciis sparsis, erumpentibus, dein superficialibus, minutis, nigris, papillatis, intus albis; sporulis minutis, ovoideis, hyalinis, 3 ≃ 1.

Hab. in cortice Leptospermi, Victoria Australiæ (Mrs. Martin).

18. **Aposphæria subcorticalis** Karst. in Hedw. 1885, p. 74. — Pe- 5467
ritheciis latere interiori corticis insidentibus, subgregariis vel sparsis, cupulato-collapsis, atris, glabris, subastomis, superficialibus, 0,2-0,3 mm. diam.; sporulis oblongatis, eguttulatis, rectis, hyalinis, 4 ≃ 1-2.

Hab. ad ramos emortuos Sambuci, Aboa Fenniæ.

19. **Aposphæria nitens** Cooke et Mass. in Grev. XVI, p. 7. — Pe- 5468
ritheciis gregariis, erumpentibus, nigris, nitentibus, globosis, papillatis, minusculis, demum fere superficialibus; sporulis cylindraceis, utrinque obtusis, continuis, hyalinis, 10 ≃ 2-3.

Hab. in ligno pineo dejecto, Kew Britanniæ.

20. **Aposphæria Broomeiana** Berk. Grev. XVI, p. 7. — Sporulis mi- 5469
nutis, 2 ≃ 1,5.

Hab. in ligno, Mortlake, King's Cliffe Britanniæ.

21. **Aposphæria coniosporioides** Karst. Hedw. 1889. — Peritheciis 5470
superficialibus, in acervulos exiguos conglomeratis, sphæroideis,

atris, brunneis sub lente astomis, diam. usque ad 30 μ.; sporulis ellipsoideis, eguttulatis, hyalinis, 1 ≃ 0,5.

Hab. ad lignum mucidum in Minas Geraes Sitio.

22. **Aposphæria elevata** (Peck) Berl. et Vogl. Add. Syll. n. 4354, 5471
Phoma elevatum Peck in 38 Rep. St. Mus. p. 95. — Peritheciis numerosis, minutis, rotundis, ovalibus vel hysteriformibus, matrice immersis sed pustulas elevatas vel rimas occupantibus, nigris; sporulis ovatis vel subellipticis, 8 × 4, hyalinis.

Hab. in ligno decorticato arborum in montibus Adirondack Amer. bor.

23. **Aposphæria Aranea** Peck 42 Rep. p. 30. — Peritheciis sparsis 5472
v. gregariis, superficialibus, astomis, subglobosis, submembranaceis, irregulariter dehiscentibus, nigris, filamentis arachnoideis pallidis insidentibus et conspersis; sporulis ovoideis 3-4 ≃ 2,5.

Hab. ad dolium ligneum udum in cella vinaria, Flatbush Long Island Amer. bor. (Zabriskie).

24. **Aposphæria Cercidis** Wint. et Brun. Esp. Sphærops. p. 1. — Pe- 5473
ritheciis sparsis vel subconfertis, erumpenti-superficialibus, subconicis, nigris, $^1/_6$-$^1/_5$ mm. diam., intus griseo-corneis, pertusis; sporulis ovoideis vel ovoideo-oblongis, 2-guttatis, hyalinis, 7-9 ≃ 3.

Hab. in seminibus ad legumina putria Cercidis Siliquastri, Rochefort Galliæ.

25. **Aposphæria leptosphærioides** Passer. Diagn. F. N. V, n. 31. — 5474
Peritheciis crebre sparsis ligno innatis dein erumpentibus, superficialibus, globosis atris, ostiolo acuto; sporulis cylindricis utrinque rotundatis, 2-guttulatis, hyalinis, 8-10 × 2-2,5.

Hab. in caule sicco Pulicariæ viscosæ, Vigheffio prope Parma Ital. bor. — *Melanommatis leptosphærioidis* probabiliter spermogonium.

DENDROPHOMA Sacc. — Syll. III. p. 178.

1. **Dendrophoma Gleditschiæ** Pass. in Journ. hist. nat. Bord. 1885, 5475
p. 136, Brun. List. Sphærops. p. 21. — Peritheciis membranaceis, carbonaceis, sparsis vel gregariis, globulosis, erumpentibus, nigris; sporulis bacillaribus, hyalinis, 10-12 × 3-3,5; basidiis longe ramosis, ramis in ramulos divisis.

Hab. in ramis emortuis Gleditschiæ Triacanthi, Saintes Galliæ.

2. **Dendrophoma affinis** Sacc. F. Rom. n. 47, fig. 8. — Peritheciis 5476
epiphyllis, areis arescentibus, pallidis, innatis, tectis, prominulis,

globulosis, minutis, 1/5 mm. diam., poro pertusis, nigris; sporulis ovoideis, 2-guttulatis, exiguis, 3-4 = 1, in basidiorum bacillarium rectorum, 25-30 = 2, ramulis brevibus lateralibus insertis.

Hab. in foliis semi-emortuis Theophrastæ imperialis in hortis Romæ Italiæ. — Affinis *D. valsisporæ* sed basidiis non verticillato-ramulosis.

3. **Dendrophoma Tiliæ** Peck 39 Rep. p. 45. — Peritheciis minutis, 5477
sparsis, erumpentibus, nigris, intus albis; sporulis oblongis vel subcylindraceis, obtusis, hyalinis, 15-25 = 7-5-8,75; basidiis filiformibus, ramosis.

Hab. in ramis emortuis Tiliæ Americanæ, Quaker Street Amer. bor.

4. **Dendrophoma Cephalanthi** Peck 39 Rep. p. 45. — Peritheciis mi- 5478
nutis, 500-625 μ. lat., erumpentibus, depressis, nigris; ostiolo papillato; sporulis copiosis, rectis vel subincurvis, hyalinis, 4-5 μ. long.; basidiis gracillimis, supra ramosis, 25-37,5 μ. long.

Hab. ad ramos emortuos Cephalanthi occidentalis, Karner Amer. bor.

5. **Dendrophoma Pini** Rich. Cat. Champ. Marn. p. 544. — Perithe- 5479
ciis hemisphæricis, rimoso-dehiscentibus; sporulis minutis, cylindraceis, curvis, basidiis ramosis fultis.

Hab. ad ramos ramulosque Pini silvestris, St.-Amand Loulanges Galliæ. — Spermogonium dicitur *Coccomycetis Pini.*

6. **Dendrophoma Mori** Berl. Add. Syll. n. 4651, F. Moric. tab. 49, 5480
f. 7-12. — Peritheciis ligno immersis, parte superiori pellucida, pertusa, conoidea, tantum prominulis; sporulis sphæroideis vel vix ovoideis enucleatis, 3-4 = 3, denticulis basidiorum brevibus insertis vel acrogenis; basidiis cylindraceis septatis, ad septa denticulato-dilatatis vel nodulosis, 40-50 = 3,5.

Hab. in ligno emortuo Mori albæ, Fiumicello Ital. bor.

7. **Dendrophoma teres** Berl. Add. Syll. n. 4650, F. Moric. tab. 49, 5481
f. 1-6. — Peritheciis globoso-conoideis, minutis 100-120 μ. diam., basi hyphis fuligineis cinctis, contextu laxe parenchymatico, sursum ostiolatis; sporulis numerosis, ovoideis, enucleatis, in cirrum expulsis, 3 = 1,5; basidiis tereti-fusoideis, denticulatis vel brevissime ramosis furcatisque; denticulis sporulas sustinentibus, crassiusculis, subinde brevissimis.

Hab. in ramis emortuis Mori albæ, Fiumicello Ital. bor.

8. **Dendrophoma phyllogena** Trail Scot. Nat. 1887, p. 87, Grev. XV, 5482
p. 108. — Maculis pallidis; peritheciis numerosis, subepidermicis,

nigris, ellipsoideis, subpapillatis; sporulis cylindraceis, hyalinis, 8–12 = 1,5–2; basidiis fasciculatis, 30-35 μ. long., 2 μ. basi crass., hyalinis, cylindraceis, ramulis brevibus, alternis præditis.

Hab. in foliis Ilicis Aquifolii, Aberdeen Scotiæ.

9. **Dendrophoma Marconii** Cav. App. Pat. Veg. p. 4, t. VI, f. 11-14. — Peritheciis sparsis, maculis cinereis, epidermide tectis, globoso-depressis, ostiolo subprominulo, 130-150 μ. diam.; basidiis simplicibus vel vage dichotomo-ramosis, septatis, hyalinis; sporulis pleiomorphis, ovatis ellipticis, teretiusculis, continuis, hyalinis, 4,5-6,5 = 2-1,5. 5483

Hab. in caulibus Cannabis sativæ, Forlì Italiæ.

10. **Dendrophoma Convallariæ** Cav. Mat. Lomb. p. 18, t. II, f. 6. — Maculis oblongis, nervisequis, amphigenis, rufo-ochraceis; peritheciis tectis, minutissimis, nigris, globosis, astomis, 80-100 μ. lat.; basidiis cylindricis, septulatis, vage ramosis, hyalinis; sporulis perexiguis, bacillaribus, utrinque leviter incrassatis, 4-5 = 1-1,5. 5484

Hab. in Convallaria majali, in horto botanico Pavia Ital.

11. **Dendrophoma coprophila** March. Champ. copr. VI, p. 9. — Peritheciis gregariis, superficialibus, e mycelio brunneo, copioso oriundis, globoso-depressis, 290-360 μ. diam., fuscescentibus; contextu dense parenchymatico, apice late pertusis, ore zona nigra papillosa distincte marginato; sporulis acrogenis, 2-guttulatis, ellipsoideis, rectis, utrinque rotundatis, 5,5–7 = 2-3, tranquillis, in globulum mucosum, roseum denique expulsis; basidiis copiosis, fasciculatis, parum ramosis, irregulariter noduloso-articulatis, hyalinis, 15-25 μ. long. 5485

Hab. in fimo leporino, Boitsfort Belgii.

ASTEROMELLA Pass. et Thüm. — Syll. III, p. 182.

1. **Asteromella quercifolii** C. Mass. Contr. Mic. Ver. pag. 131, t. 5, f. 32. — Peritheciis minutis, subglobulosis, hypophyllis, nigris, parietibus membranaceis, in soros punctiformes coalitis; soris crebre disseminatis, maculas parvas, amphigenas, rufescentes, in pagina superiore folii sæpe obscuriores, efficientibus, primum epidermide tumidula velatis, demum rimose erumpentibus; sporulis exilissimis, breviter bacillaribus, hyalinis, continuis, utrinque obtusis, 2-4 = 0,7-1. 5486

Hab. in foliis languidis vel emortuis Quercus Roboris, Tregnago in agro veronensi Ital. bor.

2. **Asteromella vulgaris** Thuem. M. U. n. 1892 et 2092. — Perithe- 5487

ciis numerosissimis maculas parvas indistinctas griseas efficientibus, dense gregariis, hypophyllis, subglobosis, subemersis, nigricantibus; sporulis numerosis, bacillaribus, continuis, plerumque subcurvis, utrinque truncatis, 3,5-4 ≃ 1, hyalinis.

Hab. ad folia languida Cratægi oxyacanthoidis et Gleditschiæ Triacanthi, Parma Ital. bor. (Passerini).

3. **Asteromella epitrema** Cooke in Grev. XX, p. 6. — Maculis epi- 5488
phyllis, nigris, suborbicularibus vel confluentibus, mycelio ex hyphis brunneis sejunctis efformato; peritheciis minutis, subglobosis, membranaceis; sporulis numerosis, subfusoideis vel anguste ellipsoideis, continuis, guttulatis, hyalinis, 10-12 ≃ 3.

Hab. in foliis Tremæ asperæ, Zandina, Queensland Australiæ (Bailey) socio *Dimerosporio parvulo.*

4. **Asteromella Acaciæ** Cooke in Grev. XIX, pag. 5. — Peritheciis 5489
numerosissimis, maculam atram efficientibus, dense congestis, minutis, vix 25 μ. excedentibus, atris membranaceis, poro pertusis; sporulis arcte ellipticis, continuis, hyalinis, rectis, 2,5 ≃ 1.

Hab. in phyllodiis Acaciæ, Wedderburn Australiæ (Martin).

5. **Asteromella æsculicarpa** Cooke et Mass. in Grev. XVI, p. 7. — 5490
Maculis effusis; peritheciis immersis, sparsis, minutis, nigris, epidermidem demum rumpentibus; sporulis subcylindricis, obtusis vel allantoideis, continuis, hyalinis, 10-12 ≃ 3-4.

Hab. in pericarpio Æsculi Hippocastani dejecto in horto kewensi Britanniæ.

6. **Asteromella gaboonensis** Cooke et Mass. in Grev. XV, p. 111. — 5491
Epiphylla; maculis fumosis, orbicularibus vel confluentibus; peritheciis gregariis, minutis, atris, hemisphæricis, membranaceis; sporulis ovalibus, continuis, hyalinis, 6 × 4.

Hab. in foliis herbaceis subemortuis, Gaboon Africæ occid.

7. **Asteromella myriadea** Cooke in Grev. XIX, p. 3. — Peritheciis 5492
minutissimis, numerosis, hypophyllis, maculam obscuram efficientibus, dense gregariis, globosis, emersis, atris; sporulis cylindraceis, utrinque rotundatis, rectis vel paullum curvulis, 12 × 2-3, hyalinis.

Hab. in foliis coriaceis, Nova Zelandia (Colenso).

8. **Asteromella perpusilla** Speg. F. Puigg. n. 415. — Maculis epiphyl- 5493
lis, pallescentibus, determinatis 2-5 mm. diam., linea tenuissima rufescente cinctis; peritheciis laxe gregariis, superficialibus, globosis, 40-50 μ. diam., olivaceo-atris; sporulis cylindraceis, hyalinis, 7-8 ≃ 2,5-3, utrinque obtusissimis.

Hab. ad folia viva plantæ cujusdam ignotæ pr. Apiahy Brasiliæ.

SCLEROTIOPSIS Speg. — Syll. III, p. 184.

1. **Sclerotiopsis Cheiri** Oud. Microm. I, p. 4. — Peritheciis numerosissimis, sclerotio brunneo, apice multo pallidiore v. albo, ceraceo-fragili immersis, sporulis ellipticis, 3 × 1,5, hyalinis, utrinque obtusis, 2-guttatis; basidiis 1-sporis, numerosissimis, 23-25 × $1^1/_6$. 5494

Hab. in caule putrescente Cheiranthi Cheiri in horto botanico Amstelædamensi Hollandiæ. — Sclerotia seminis *Sinapeos albæ* magnitudine, inter fibras annuli lignosi abscondita.

PLENODOMUS Preuss — Syll. III, p. 184.

1. **Plenodomus microsporus** Berl. Exc. Frioul p. 22. — Peritheciis sparsis, primo tectis, dein epidermide secendente liberis superficialibusque, sæpe difformibus, irregulariter plicatis tuberculatis, forma variis, usque ad $^3/_4$ mm. diam., nigris, sursum depressis et subinde umbilicatis, primo astomis, dein pertusis, intus cavitate unica præditis, tunica peritheciorum, e stratibus pluribus cellularum, carnem ceraceam facillime in laminas tenuissimas cultro scissam, cum carne sclerotiorum plurimorum comparandam efficientibus formata; basidiis brevissimis, ambitum totius cavitatis obtegentibus, 1-sporis; sporulis cylindraceis, utrinque rotundatis, utrinque 1-guttatis, 10-12 × 2,5 × 3. 5495

Hab. in caulibus emortuis Sedi Telephii, Osoppo in agro forojuliensi Ital. bor.

2. **Plenodomus Mollerianus** Bres. Fung. Lusit. p. 6. — Peritheciis carbonaceis, rigidis, subhemisphæricis, basi subapplanatis, superficialibus, glabris, atris, primum clausis, demum substellatim v. irregulariter ruptis, $^3/_4$-1 mm. lat.; contextu parenchymatico; sporulis hyalinis, subfusoideo-curvatis, utrinque subacutis, 6-8 × 1,5-2, basidiis flocciformibus seu ex hyphis filiformibus, ramosis v. subverticillato-ramosis compositis, duplo v. triplo quam sporulis longioribus. 5496

Hab. in foliis Eucalypti Globuli ad Cerca de S. Bento pr. Coimbra Lusitaniæ. — Species ad *Dendrophomam* vergens.

SPHÆRONÆMA Fr. — Sacc. Syll. III, p. 185.

1. **Sphæronæma levirostre** (Karst.) Berl. et Vogl. Add. Syll. n. 4356, *Rhynchophoma levirostris* Karsten Symb. pag. 154. — Peritheciis 5497

superficialibus, sparsis vel gregariis, sphæroideis vel subovoideo-sphæroideis, fragilibus, rugulosis, atris, opacis, rostro cylindraceo-flexuoso, levi perithecio duplo vel quadruplo longiore, circit. 0,4 mm. diam.; sporulis ellipsoideis vel oblongatis, rectis vel leniter curvulis simplicibus, 4–6 ≃ 2.

Hab. supra lignum vetustum Populi tremulæ in regione mustialensi Fenniæ.

2. **Sphæronæma Solandri** Cooke in Grev. XIX, p. 3. — Peritheciis 5498
gregariis, cylindricis, subtruncatis, atris, levibus; sporulis ovatis, hyalinis, 3–5 ≃ 2.

Hab. in ligno Fagi Solandri, Nova Zelandia.

3. **Sphæronæma disseminatum** Karst. et Har. Journ. Bot. 1890, p. 358. 5499
— Peritheciis sparsis v. superficialibus, ovoideo-conoideis, glabris, levibus, atro-olivaceis?, 0,3 mm. alt.; sporulis fusoideo-oblongatis, rectis, eguttatis, hyalinis, 3–4 ≃ 1.

Hab. in ligno mucido Pini pr. Burdigalam Galliæ (Durieu de Maissonneuve).

4. **Sphæronæma canum** Ell. et Ev. Journ. Myc. 1889, p. 147. — Pe- 5500
ritheciis primo cortice tectis, depresso-hemisphæricis, 1 mm. v. ultra diam.; collo centrali, cylindraceo, valido, recto, nigro, circ. 1 mm. longo, apice incrassato subovato, griseo, strigoso; sporulis ovato-oblongis v. ovato-ellipsoideis, guttatis, hyalinis, 7-10 ≃ 3–4, basidiis cylindraceis, 15–20 × 2 fultis, stratum compactum, corneo-albidum efformantibus.

Hab, in ramis emortuis Negundinis aceroidis, Manhattan, Kansas Amer. bor. (Kellerman et Swingle). — Habitus *Sph. pruinosi* et *Stilbi gigantei*.

5. **Sphæronæma exiguum** Karst. Rev. Myc. 1890, n. 47. — Peritheciis 5501
sparsis, e basi cortice insculptis, superficialibus, inferne conoideo-ovoideis, sursum in ostiolum cylindraceum, breve attenuatis, nigris, circ. 150 μ. diam; sporulis ellipsoideis, continuis, eguttulatis, hyalinis, 3–4 ≃ 2.

Hab. in cortice vetusto Betulæ in Gallia (P. Hariot).

6. **Sphæronæma sphæropsideum** E. et Ev. Proc. Ac. Phil. 1891, 5502
p. 78. — Peritheciis sparsis, conicis, 0,5 mm. diam., cortice interiore immersis, per epidermidem ruptam erumpentibus; collo subulato, gracili, 0,5-1 mm. long.; sporulis oblongis, hyalinis, 12-20 ≃ 6-8, in globulum albidum expulsis; basidiis sporulis subæquilongis, 2,5-3 μ. cr., filamentis (basidiis sterilibus?) sporulas ad paraphysum instar superantibus, immixtis.

Hab. in ramis emortuis Fraxini, London Canada Amer. bor. (J. Dearness).

7. **Sphæronæma tenuirostre** Cooke in Grev. XVI, p. 15. — Gregarium; peritheciis nigris, depresso-globosis, subepidermicis; collo epidermidem perforante, longo, gracili, apicem pallidum versus sensim attenuato, perithecii diametro 3-4-plo longiore; sporulis cylindraceis, utrinque rotundatis, rectis v. subcurvis, continuis, hyalinis, 21 ≃ 5; basidiis longis. 5503

Hab. in corticibus, Westbrook Maine (Rev. E. C. Bolles).

8. **Sphæronæma leporum** March. Cham. copr. VI, p. 10. — Peritheciis sparsis, superficialibus, sphæroideis, contextu sat dense celluloso, 500–700 μ. diam., fusco-atris, ostiolo brevi, circiter 60-90 μ. long.; sporulis elliptico-oblongis, rectis, utrinque obtusiusculis, chlorino-hyalinis, eguttulatis, 4,5-5,4 ≃ 1,6; basidiis obsoletis. 5504

Hab. supra fimum leporinum in silvis abiegnis Eelen, Limbourg Belgii, sociâ *Philocoprâ pleiosporâ*, cujus forte status spermogonicus.

9. **Sphæronæma sticticum** Berk. Fl. Antarc. II, 450. — Minutissimum, punctiforme, innatum, atrum, nitidum, demum collapsum; sporulis minutissimis, ellipticis. 5505

Hab. in foliis Fagi antarcticæ ad Caput Storn Amer. austr.

10. **Sphæronæma nigrificans** Karst. Symb. Myc. Fenn. XXIV, p. 17. — Peritheciis sparsis, erumpenti-superficialibus, macula ambiente, indeterminata, nigricante insidentibus, irregularibus, rotundato-depressis, varie compressis v. inæqualibus, recentibus, olivascentibus, mollibus, siccis, atris, nitidulis, rostro cylindraceo, diametrum perithecii nonnumquam æquante instructis, 0,3-0,4 mm. lat.; sporulis oblongatis, utrinque obtusis, rectis, sæpe guttulis 2-minutis apicalibus præditis, hyalinis, 6-9 ≃ 2-3. 5506

Hab. in petiolis foliorum putrescentium Cochleariæ Armoraciæ in horto mustialensi Fenniæ.

11. **Sphæronæma innatum** Karst. Rev. Myc. 1890, n. 47. — Peritheciis innatis, sphæroideis fragilibus, atris, intus nitidis, circ. 0,2 mm. diam.; rostro erumpente, cylindraceo, stricto v. flexuoso, truncato, atro, perithecio duplo longiore; sporulis cylindraceis, leniter curvulis, guttulis 2 apicalibus præditis, hyalinis, 4-6 ≃ 2. 5507

Hab. ad caules aridos Passifloræ cœruleæ, quos, ut videtur, nigrificat, in Gallia (P. Hariot). — Forte est species *Ceratosiomellæ* sed asci non inventi.

12. **Sphæronæma fimbriatum** (E. et H.) Sacc. *Ceratocystis fimbria-* 5508

ta Ell. et Halst. Bull. N. Jers. Agr. Stat. n. 76, p. 14. — Peritheciis globulosis, hyphulis hyalinis septatis cinctis, 100-200 μ. diam. in ostiolum cylindricum quadruplo longius 20-30 μ. cr. productis, ostiolo apice fimbriato pallidiore; sporulis globoso-ellipsoideis intus granulosis, hyalinis, 5-9 μ. diam. (diu aqua immersis, 12-17 ≃ 9-15).

Hab. in tuberculis Batatæ edulis, cui morbum (*Sweet-potato black rot*) affert, New Jersey Amer. bor. — Adsunt simul et forte metagenetice connexæ formæ *Chalaræ* v. *Cylindrio* et *Hadrotricho* affines.

13. **Sphæronæma Lycopersici** Plowr. Fung. Dis. Tomato p. 3. f. 1. 5509
— Peritheciis minutis, 150 μ. diam. sphæricis, subconcentrice dispositis; sporulis minutis, cylindraceis vel subbotuliformibus, hyalinis, non vel guttatis, 10 ≃ 2-3, in globulum sordide carneum expulsis.

Hab. in fructibus Solani Lycopersici prope King's Lynn in Britannia. — *Sphæronæma concors* B. et C., Sacc. Syll. III, p. 198, sec. specim. orig. (ad folia Cyperi in Carolina) in Ravenel Carol. II, n. 64 est *Darluca Filum* (Biv.) Cast.

CHÆTOPHOMA Cooke — Sacc. Syll. III, p. 199.

1. **Chætophoma eutricha** Sacc. et Berl. Misc. Myc. II, p. 8. — My- 5510
celio epiphyllo, maculas nigras, epiphyllas, sæpe confluentes, senio sæpe pulveraceo-secedentes formante; hyphis mycelicis effusis, filiformibus, ramoso-anastomoticis, subseptatis, ubique nodulos hemisphæricos, unilaterales gerentibus, fuligineis; peritheciis punctiformibus, subastomis, nigris, hyphis cinctis; sporulis oblongo-allantoideis, curvulis, 4 ≃ 1,5, hyalinis.

Hab. in foliis languidis Castanospermi australis, Logan Australiæ (Rev. Scortechini). — Habitus *Meliolæ*, cujus spermogonium verisimiliter sistit.

2. **Chætophoma Sollæ** Passer. Diagn. F. N. IV, n. 46. — Hypophyl- 5511
la, sparsa v. maculiformis; hyphis byssoideis repentibus parcis fuligineis; peritheciis globosis, fuscis, gregariis v. sparsis, 30–75 μ. diam., contextu fibroso, fumido; sporulis bacteroideis, hyalinis, 2,5 × 1,5.

Hab. in foliis Quercus pubescentis pr. Trieste (prof. Solla). — A speciebus omnibus quercicolis a Cooke in Grevillea descriptis (vol. 7, p. 24, tab. 118, f. 1-3) videtur diversa.

3. **Chætophoma microstoma** Speg. F. Puigg. n. 413. — Peritheciis 5512

sparsis, globulosis, atris, glabris, minute ostiolatis; sporulis ellipsoideis, utrinque obtusis, majuscule 2-guttatis, 5-6 × 2,5-3.

Hab. ad folia languida Sapindaceæ cujusdam in dumetis prope Apiahy Brasiliæ. — Mycelium ac perithecia ut in *Dimerosporio? microstomo*, cujus statum sporuliferum sistit.

4. **Chætophoma Melianthi** Pat. Bull. Soc. Myc. 1891, p. 178. — Peritheciis minutis, 50–60 μ. diam., subglobosis, glabris, pallide brunneis, apice pertusis; sporulis ovoideis, hyalinis, 3-4 ≃ 2, demum cirrose expulsis. 5513

Hab. in foliis Melianthi majoris, socio *Cladosporio*, Quito Amer. austr. (Lagerheim).

5. **Chætophoma macrospora** Karst. et Har. Journ. Bot. 1890, p. 358. — Subiculis rotundato-difformibus, sæpe confluentibus, plano-convexulis, velutinis, circ. 3 mm. lat., ex hyphis densissime intricatis, ramosis, articulatis, fuscis, contextis; peritheciis in subiculo nidulantibus, membranaceis, tenuissimis, fragillimis exiguis, sphæroideis; sporulis ellipsoideis, hyalinis, 26–28 ≃ 12-14. 5514

Hab. ad corticem Sciadophylli capitati, Saint Thomas Indiæ occidentalis (Eggers).

6. **Chætophoma? Ampullula** Speg. Guar. I, p. 143. — Peritheciis superficialibus, globosis, brevissime subampulliformibus ex ostiolo papillulato, crassissimo, late perforato, margine fimbriatulo, minutis, 60-70 μ. diam., membranaceis, contextu parenchymatico, olivaceo-fuligineo, subiculo parcissimo, radiante, fibrillis atris, opacis, rectiusculis constituto, insidentibus; sporulis ellipticis, utrinque obtusiusculis, 2-guttatis, 5-6 × 2,5-3, hyalinis vel chlorino-fumosis. 5515

Hab. ad folia viva plantæ ignotæ cujusdam, sociâ *Meliolâ dubiâ*, in silvis prope Guarapi Brasiliæ. — Species pulcherrima, peritheciis vere singularibus distinctissima.

7. **Chætophoma? Asterinarum** Speg. F. Puigg. n. 412. — Peritheciis sparsis, globosis, astomis, atris, pilis circinatis adspersis; sporulis cylindraceo-fusoideis utrinque subtruncatulis 20-22 × 2,2-5, continuis v. rarius spurie 1-pseudoseptatis, chlorinis. 5516

Hab. ad folia viva plantæ ignotæ in Asterina parasitans pr. Apiahy Brasiliæ. — Mycelium et perithecia ut in *Dimerosporio Asterinarum*, cujus statum sporuliferum sistit.

8. **Chætophoma? perpusilla** Speg. F. Puigg. n. 414. — Peritheciis globoso-ovatis, atris, glabris, astomis, 40-60 μ. diam.; mycelio tenuissimo olivaceo, ex hyphis 2-4 μ. cr. composito; sporulis naviculari-elongatis, chlorinis, 10 ≃ 2,5-3, utrinque obtusiusculis. 5517

Hab. in mycelio Asterinæ pseudopelliculosæ parasitans ad folia viva Ipomeæ cujusdam pr. Apiahy Brasiliæ.

9. **Chætophoma maculans** Winter in Journ. of Myc. 1885, p. 123. — Peritheciis minutis, globosis, poro pertusis, fuscis, membranaceis, 70 μ. diam., in macula rotundata vel subirregulari, magna (usque 25 mm. lata), fusca, demum fusco-atra, margine indeterminato, pallidiore cincta, interdum autem a linea atra limitata, amphigenis, superficialibus, mycelio repente, ramoso, septato, fusco, subdenso insidentibus; sporulis numerosissimis et minutissimis, ellipticis, hyalinis, unicellularibus, vix 2 μ. longis. 5518

Hab. ad folia viva languidave Silphii terebinthacei, Missouri Amer. bor.

10. **Chætophoma Antirrhini** Rich. Cat. Champ. Marn. n. Suppl. — Peritheciis brunneis, subsphæricis, dein collapsis, glabris basi fibrillis radiantibus præditis; ostiolo centrali; sporulis ovato-oblongis, hyalinis, numerosissimis, 4 μ. long. 5519

Hab. in capsulis Antirrhini majoris, St.-Amand Galliæ.

11. **Chætophoma? Maydis** Speg. F. Guar. I, pag. 143. — Peritheciis globosis, 50-90 μ. diam., astomis (an semper?), primo pellucidis, ex hyalino chlorinis, dein præcipue in parte supera, atris, glabris, levibus, tenui-membranaceis, sparsis v. hinc inde laxe glomerulatis, contextu pellucido, indistincto donatis, hypothallo mucoso-granuloso, sæpe per ætatem evanescente insidentibus; sporulis ellipticis, utrinque obtuse rotundatis, 2,5-3,5 ≃ 1,5-2, hyalinis. 5520

Hab. ad folia dejecta putrescentia Zeæ Maydis nec non (rarius) Sacchari officinarum pr. Guarapì Brasiliæ.

12. **Chætophoma filamentifera** (Karst.) Berl. et Vogl. Add. Syll. n. 4359, *Phoma filamentifera* Karst. Symb. XV, p. 153. — Peritheciis laxe gregariis, innatis, oblongatis vel ellipsoideis, raro rotundatis, hyphis repentibus, ramosis, septatis, fuscescentibus, longis obsessis, contextu distincte laxiuscule celluloso, fuligineo, ostiolo obtusiusculo, brevi, perforante, circiter 0,2 mm. lat.; sporulis oblongis, rectis, eguttulatis, chlorino-hyalinis, 8-9 ≃ 3-3,5. 5521

Hab. in foliis exsiccatis Graminum ad Mustiala Fenniæ.

13. **Chætophoma Oryzæ** Cav. Mat. Lomb. p. 48, t. II, f. 7. — Peritheciis superficialibus, seriatis, atro-olivaceis, globoso-depressis, medio subexcavatis, ostiolo prominulo pertusis, primo filamentis byssoideis, fuligineis, septatis ramosisque, tectis, demum glabris, nitentibus, 300-350 μ. diam.; basidiis papillæformibus hyalinis, bre- 5522

vissimis; sporulis oblongis, ellipticis vel ovatis, dilute olivaceis, 10-13 ≃ 4-5.

Hab. in vaginis, pedunculis et glumis Oryzæ sativæ, Carbonara al Ticino pr. Pavia Italiæ bor.

ASTEROMA DC. — Syll. III, p. 201.

1. **Asteroma ribicolum** Ell. et Ev. Journ. Myc. 1889, p. 148. — Epi- 5523
phyllum; fibrillis ramosis, radiatim effusis, maculas atras, orbiculares, 1 cm. vel ultra diam. efformatibus, dense gregatis; peritheciis, apice evanido excepto, nigris, sterilibus, minutis, tectis.

Hab. in foliis vivis Ribis floribundi, Helena, Montana Amer. bor. (Rev. F. D. Kelsey).

2. **Asteroma Solidaginis** Cooke in Grevillea XIV, p. 40. — Perithe- 5524
ciis minutis, in maculis obscuris suborbicularibus collectis, mycelio tenui, brunneo, crustaceo, reticulato, plus minusve radiante insidentibus; sporulis ellipsoideis, minutis, hyalinis, continuis.

Hab. in foliis vivis Solidaginis ellipticæ, Kew Britanniæ.

3. **Asteroma Daturæ** Brun. Miscell. mycol. p. 16. — Maculis primo 5525
rotundatis, dein irregularibus, nigro-brunneis, fibrillis marginalibus, ramosis, gracillimis præditis; peritheciis valde adproximatis, numerosissimis, globosis, nigris, minutissimis, acervulos maculiformes interdum latiusculos efformantibus; sporulis globulosis, admodum minutis, hyalinis.

Hab. in caulibus emortuis Daturæ Stramonii, Clermont-Ferrand Galliæ (Héribaud).

4. **Asteroma Scrophulariæ** Brun. Miscell. mycol. p. 16. — Maculis 5526
oblongo-elongatis, brunneis, fibrillis marginalibus, parum distinctis, dein evanidis præditis, demum nigrescentibus; peritheciis numerosis, nigris, nitentibus, minutis, astomis; sporulis perexiguis.

Hab. in caulibus emortuis Scrophulariæ nodosæ, Clermont-Ferrand Galliæ (Héribaud).

5. **Asteroma Phaseoli** Brun. Champ. Saint. p. 338. — Maculis rotun- 5527
dis vel subrotundis, sparsis, subinde confluentibus, nigro-brunneis, fibrillis pallidioribus, longis, interdum ramosis; peritheciis parum numerosis, sparsis, globulosis, erumpentibus; sporulis oblongis, 3-4 ≃ 2,5, hyalinis.

Hab. in leguminibus exsiccatis Phaseoli vulgaris, Pessines prope Saintes Galliæ. — *Asteroma corallinum* Mont. in Lév. Ann. Sc. nat. 1846, p. 284 (nomen), Syll. III, p. 215, est *Meliola corallina* Mont., Syll. I, p. 62.

CICINNOBOLUS Ehrenb. — Syll. III, p. 216.

1. **Cicinnobolus Plantaginis** Oud. Contr. Mycol. XIII, p. 38. — Peri- 5528
thecius setis erectis, brevibus, hyalinis præditis, acrogenis, clavatis v. piriformibus, 70 ≃ 35, stramineis, vertice pertusis; sporulis breviter ovoideis, rectis, utrinque rotundatis, hyalinis, 7 ≃ $3^2/_3$, eguttatis, tandem in cirros exsilientibus.

Hab. parasiticus in mycelio *Oidii erysiphoidis* ad folia Plantaginis majoris, La Haye Nederlandiæ (Destrée).

2. **Cicinnobolus Humuli** Fautrey in Rev. Myc. 1890, p. 73. — Peri- 5529
thecis pycniformibus, ovoideis, oblongis nec non globulosis, minutissimis, pedicellatis aut sessilibus; sporulis oblongis, ovoideis, rectis minimeve curvulis, 2-guttulatis, 4,6 ≃ 3, in maturitate 9,8 ≃ 3.

Hab. supra Oidium erysiphoides in foliis Humuli Lupuli in Gallia (F. Fautrey).

3. **Cicinnobolus cotoneus** Pass. in Thuem. M. U. n. 1668, Diagn. p. 13. 5530
— Peritheciis clavatis v. ellipsoideis, fusco-luteis, reticulatis; sporulis immersis, cylindricis, apicibus subrotundatis, utrinque 1-guttatis, 7 ≃ 2,5.

Hab. ad folia viva Cydoniæ vulgaris in horto botanico parmensi Ital. bor. (prof. Passerini).

4. **Cicinnobolus parasiticus** (Cocc.) Sacc., *Phyllosticta parasitica* Cocc. 5531
Simb. funghi p. 20, t. I, f. 2. — Peritheciis globulosis, membranaceis, 75 μ. diam., poro rotundo pertusis; sporulis cirrose expulsis, ovoideis, continuis, hyalinis, 4-5 ≃ 2,5-3.

Hab. parasitice ad perithecia Phyllactiniæ suffultæ Porretta Italiæ.

SIROCOCCUS Preuss — Syll. III, p. 217.

1. **Sirococcus brasiliensis** Speg. F. Puigg. n. 416. — Maculis nullis; 5532
peritheciis subepidermicis, lenticularibus, 3-5-gregariis, 150-200 μ. diam., atris, glabris, ostiolatis; contextu parenchymatico parum distincto; ostiolo rotundo, 10 μ. diam.; sporulis ellipticis, catenulatis, hyalinis.

Hab. ad folia dejecta putrescentia Bignoniaceæ cujusdam in silvis pr. Apiahy Brasiliæ.

PYRENOCHÆTA De Not. — Sacc. Syll. III, p. 219.

1. **Pyrenochæta Berberidis** Rich. Cat. Champ. Marn. n. 1630. — Pe- 5533
ritheciis pilis nigris coronatis; sporulis basidiis dendroideo-ramosis fultis.

Hab. in ramis decorticatis Berberidis vulgaris, St.-Amand Marne Galliæ.

2. **Pyrenochæta Briardi** P. Har. Journ. de Bot. 1891, p. 170. — Peritheciis apice pilosis, congestis v. sparsis, interdum confluentibus, $^1/_5$-$^1/_3$ mm. diam., subepidermicis, erumpentibus, atris, lenticularibus, depressis, pilis rigidis, subulatis, atris, continuis, 48-60 × 4-6; sporulis oblongis, cylindraceo-fusiformibus, obtusis, rectis v. curvulis, hyalinis, aliquando 1-2-guttatis, 16-20 × 5-7. 5534

Hab. ad ramos aridos Rubi Idæi, Méry-sur-Seine, Aube Galliæ.

3. **Pyrenochæta Rubi-idæi** Cav. Mat. Lomb. p. 18, t. II, f. 8. — Maculis hypophyllis, amplis, orbicularibus, fusco-olivaceis; peritheciis superficialibus, sparsis, globoso-piriformibus, initio flavescentibus, pellucidis, demum olivaceo-brunneis, setis rigidiusculis, septulatis, superne vestitis; contextu parenchymatico, tenui, laxo; ostiolo obsoleto v. nullo; basidiis cylindráceis, simplicibus aut ramosis, septulatis, 12-30 × 2; sporulis bacillaribus, rectis vel curvulis, hyalinis, 2-3-guttatis, 5,5-6,5 × 1,5-2. 5535

Hab. in foliis Rubi idæi pr. Pavia Italiæ.

4. **Pyrenochæta Vitis** Viala et Sauv. in Journ. de Bot. 1891, p. 357, t. V, f. 1-9. — Peritheciis globoso-conicis, immersis, ostiolo erumpente prominulo hyphis filiformibus, flexuosis, brunneis, asperulis, deflexis coronato; sporulis tereti-oblongis, obtusulis, leviter curvis, hyalinis, nubilosis, 19 × 5; basidiis teretiusculis sporulâ paullo brevioribus. 5536

Hab. in foliis Vitis ripariæ, V. Labruscæ, V. cordifoliæ, V. æstivalis Massachussetts, Texas Amer. bor. — Socia adest *Phomæ* species peritheciis lenticularibus, 93 × 75; sporulis bacillaribus 4 × 1,5 hyalinis.

5. **Pyrenochæta Myrtacearum** Speg. F. Puigg. n. 417. — Maculis orbicularibus, determinatis, albido- vel cinerescenti-arescentibus, 2-3 mm. lat.; peritheciis laxe gregariis, lenticularibus, 80-90 μ. diam., ostiolato-barbatulis; ostiolo rotundo, pilis paucis, rigidis, 20-50 × 5 : coronato; sporulis e globoso-ovoideis, hyalinis, 2-4 × 2. 5537

Hab. ad folia viva Myrtaceæ cujusdam in dumetis pr. Apiahy Brasiliæ.

6. **Pyrenochæta Engleri** Speg. F. Guar. II, n. 161. — Peritheciis parvulis, 150-180 μ. diam., globoso-conoideis, atris, epidermide velatis, apice erumpentibus, ac pilis nonnullis atro-fuligineis, continuis, 40-60 × 4-5, obtusiusculis, rectis v. vix flexuosulis subpenicillatim 5538

laxe vestitis, subastomis, membranaceis, pellucidis, parenchymatico-olivaceis, densiuscule aggregatis, plagulas atras, velutinas, latiusculas efficientibus; sporulis elliptico-ovoideis vel subcylindraceis, utrinque obtusis, 16-20 ≃ 5, rectis v. inæquilateralibus, non v. granuloso-farctis, hyalinis.

Hab. ad petiolos emortuos putrescentes Pothi pinnatifidæ in silvis pr. Guarapì Brasiliæ.

7. **Pyrenochæta leptospora** Sacc. et Briard, Rev. myc. 1889, p. 16. 5539
— Peritheciis innatis, subepidermicis, $^1/_6$-$^1/_5$ mm. diam., pilis brunneis, simplicibus, 150-170 × 4-5, obsitis; sporulis numerosis, suboscillantibus, oblongis vel ovoideis, cylindraceis, obtusis, hyalinis, 4-5 × 1,5.

Hab. in culmis siccis Milii effusi, Troyes Galliæ.

8. **Pyrenochæta decipiens** March. Champ. copr. VI, p. 8. — Peri- 5540
theciis sparsis, superficialibus, globosis, 150-200 μ. diam., contextu densiuscule parenchymatico, rufo-brunneis, vertice paulum attenuatis, setis rigidis fuscis, 50-80 ≃ 3,8-4,5, parce septatis, ostiolo minuto pertusis, basidiis exoletis; sporulis copiosissimis, rectis, ovoideis, utrinque rotundatis, 3,5-4,5 ≃ 2-2,3, 2-guttulatis, hyalinis.

Hab. in fimo leporino, Malaise, Brabant.

VERMICULARIA Fr. — Sacc. Syll. III, pag. 221.

1. **Vermicularia minuta** (Link) Lib. Crypt. IV, n. 350 (1837), Syll. III, pag. 228. — Setæ perithecii aciculares basi bulbillosæ, septulatæ, 150 × 5; sporulæ cylindraceo-fusoideæ vel subclavatæ, utrinque obtusiusculæ 20-22 ≃ 4 continuæ. — Occurrit quoque in caulibus herbarum in Arduennis.

2. **Vermicularia velutina** E. et E. Journ. Myc. 1888, p. 54. — Dense 5541
gregaria; peritheciis membranaceis, erumpentibus, depresso-hemisphæricis, 70-80 μ. diam., pilis rectis, nigro-ardosiacis, 50-100 ≃ 3-4 dense vestitis; sporulis leniter incurvis, subhyalinis, guttulatis, 18-22 ≃ 3-3$^1/_4$, utrinque subacutis.

Hab. in caulibus dejectis herbaceis, St. Martinsville, Louisiana Amer. bor. (Rev. A. B. Langlois).

3. **Vermicularia asclepiadea** Pass. I. Elenc. Funghi Parm. n. 40 in 5542
Comm. Soc. critt. ital. II, p. 440. — A *V. Dematio* differt setis crassioribus, subclavatis, parum numerosis.

Hab. in caulibus siccis Asclepiadis phytolaccoidis, Parma Ital. bor.

4. **Vermicularia solanoica** Fairm. Contr. Myc. West. N. Y. p. 49. — 5543

Peritheciis superficialibus, numerosis, nigris, 150–175 μ. diam.; setulis paucis, plerumque 1-septatis, subinde continuis, longitudine variis, majoribus sensim acuminato-attenuatis, brunneolis, apicibus subhyalinis, 75–100 ≃ 5 (basi); sporulis oblongis, fusoideis, subarcuatis, 25–30 ≃ 2,5-3, dilute viridibus, continuis vel prope centrum vix 1-septatis, granulosis, guttatis.

Hab. in caulibus emortuis Solani Dulcamaræ, Ridgeway Orleans Co, New York Amer. bor.

5. **Vermicularia Dematium** (Pers.) Fr. — Syll. III, p. 215. — Var. **fennica** Kart. Symb. XX, p. 95. — Peritheciis oblongatis vel conoideo-rotundatis, subinde confluentibus, vertice setulis atris, usque ad 0,4 mm. long. obsessis, usque ad 0,5 mm. lat.; sporulis fusoideo-elongatis, utrinque apice acutiusculis, curvulis, sæpe spurie 1-septatis, 21-24 ≃ 2,5-4. 5544

Hab. in caulibus emortuis Umbelliferarum prope Mustiala Fenniæ.

6. **Vermicularia complanata** Karst. Sphærops. Fennic. pag. 67. — Peritheciis gregariis, raro sparsis, superficialibus, liberis, complanatis, orbicularibus, subastomis, pallescentibus, intus albidis, membranaceis, tenuissimis, contextu arcte minuteque celluloso, undique pilis fuscis, decumbentibus, repentibus, æqualibus vix articulatis, unicoloribus, usque ad 425 μ. longis et 3–5 μ. cr. densissime vestitis, 0,1 mm. vel paullo ultra latis; sporulis fusoideo-elongatis vel cylindraceis, rectis vel leniter curvulis, simplicibus, hyalinis, 4-6 ≃ 0,5–1; basidiis filiformibus, ramosis, 30-45 ≃ 2-3. 5545

Hab. in caulibus aridis Umbelliferarum majorum prope Mustiala Fenniæ. — Ubi basidia constanter ramosa, genus novum *Pyrenochætella* a cl. Karsten propositum (Hedw. 1885, pag. 74) servari meretur.

7. **Vermicularia phlogina** Fairm. Bot. Gaz. 1887, p. 67. — Peritheciis teneris, minutis, superficialibus, setulis varie longis, continuis vel septatis, fuscis, sursum pallidioribus, 60-100 ≃ 5–7, apice obtusis laxe vestitis; sporulis oblongo-fusoideis, curvulis, plasmate medio imperfecte partito, 15-20 ≃ 2,5-3. 5546

Hab. in foliis Phlogis divaricatæ, Ridgeway Orleans County N. Y. Amer. bor. — A *V. coptina* peritheciis minoribus, pallidioribus etc. differt.

8. **Vermicularia Ranunculi** Briard Rev. Myc. 1889, p. 16. — Peritheciis epiphyllis, globulosis, nigris, nitentibus, $^1/_8$–$^1/_7$ mm. diam., pilis rectis, rigidis, cuspidatis, basi saturate brunneis supra sub- 5547

hyalinis, 1-2-septatis, 60–100 ≃ 8; sporulis fusoideis, obtusiusculis, guttulato-granulosis, curvis vel subrectis, hyalinis, 24–28 ≃ 4.

Hab. in foliis emortuis Ranunculi auricomi, sociâ *Ramulariâ æquivocâ*, Aube Galliæ.

9. **Vermicularia sparsipila** Ell. et Kell. in Journ. Myc. 1888, p. 26. 5548
— Maculis sordide brunneis, irregularibus, 0,5–1 cm. diam.; peritheciis epiphyllis erumpentibus, pallidis, 75 μ. diam., subastomis, dense sparsis, prope apicem pilis paucis (2-6), erectis, atro-brunneis, continuis, 40-60 ≃ 5 præditis; sporulis oblongo-ellipsoideis, 2-guttatis, 18-20 ≃ 5-6, utrinque obtusis.

Hab. in foliis viventibus Callirrhois involucratæ, Rooks Co., Kansas Amer. bor. (E. Bartholomew), socio *Æcidio tuberculato.*

10. **Vermicularia Telephii** Karst. Symb. Myc. Fenn. XXVIII, p. 13. — 5549
Peritheciis sparsis, erumpenti-superficialibus, sphæroideis, atris, punctiformibus, vertice setis divergentibus, strictis, inarticulatis, atris, 100–150 μ. long. coronatis; sporulis fusoideo-bacillaribus, utrinque acutato-angulatis, curvulis, guttulatis, hyalinis, 22–32 ≃ 4. 15 ≃ 4-5.

Hab. in foliis Sedi Thelephii aridis ad Aboam Fenniæ (Karsten).

11. **Vermicularia Clarkiæ** Fautrey Rev. Myc. 1891, p. 78. — Macu- 5550
lis orbicularibus, dein irregularibus vel confluentibus, ochraceis, rubro-cinctis; peritheciis epiphyllis, secus orbes dispositis, innatis, prominulis, astomis, pilis paucis, subulatis, rigidis, divergentibus; sporulis cylindraceo-rotundatis, simplicibus, hyalinis, granulosis, 18-20 ≃ 5-6.

Hab. in foliis Clarkiæ elegantis, Noidan Côte-d'Or Galliæ.

12. **Vermicularia microchæta** Passer. Diagn. F. N. IV, n. 47. — Pe- 5551
ritheciis in maculis exaridis, albicantibus, sparsis, punctiformibus, atris, basi setulis rigidis, integris, fuscis, 40-50 μ. long. cinctis; sporulis elongatis, rectis, utrinque rotundatis, hyalinis, 12,5-

Hab. in foliis vivis Camelliæ japonicæ in horto botanico parmensi Ital. bor.

13. **Vermicularia? Melastomacearum** Speg. F. Puigg. n. 418. — Ma- 5552
culis cinerescentibus, determinatis, epiphyllis, orbicularibus, 2–5 mm. lat.; peritheciis epiphyllis, lenticularibus, astomis, 80-90 μ. diam., superne setulis paucis, rigidulis, 30 ≃ 3, fuligineis, 2-3-septatis præditis; sporulis cylindraceis, hyalinis supra obtusis, subtus acutiusculis, 12–15 ≃ 4.

Hab. ad folia viva Melastomaceæ cujusdam in silvis prope Apiahy Brasiliæ.

14. **Vermicularia acuum** Oud. Contr. Flor. Myc. Pays-Bas XI. p. 28. 5553
— Peritheciis seriatim dispositis, nigris, 100–120 μ. diam., subsphæricis, sursum plus minusve conoideis, contextu parenchymatico, minuto, setis raris, carneis, atris 4–septatis ornatis, astomis; sporulis hyalinis, ellipsoideis, 7 ≃ 3,5.

Hab. in acubus Abietis excelsæ, Putten Hollandiæ.

15. **Vermicularia Libertiana** Roum. in Rev. Myc. 1886, pag. 91. — 5554
Peritheciis minutis, globulosis, atris, erumpentibus, leniter depressis, vix $^1/_6$ mm. diam., pilis rigidis brunneis, apice pallidioribus, 40–45 ≃ 2–3, irregulariter septatis; sporulis curvatis, fusiformibus, hyalinis, 8–10 ≃ 3.

Hab. in acubus delapsis Pini, Malmedy Galliæ.

16. **Vermicularia tenuissima** Pat. Bull. Soc. Myc. 1888, pag. 121. — 5555
Peritheciis numerosis, sparsis, punctiformibus, nigris, subepidermicis, pilis brunneis, basi incrassatis, septatis, 65–80 ≃ 3–6 præditis; sporulis ovoideo–oblongatis, rectis, vix luteolis, 26 ≃ 6.

Hab. in foliis coriaceis, Puerto-Zamuro Venezuelæ.

17. **Vermicularia Syringæ** Oud. Aanw. IX–X, p. 32. — Peritheciis 5556
membranaceis, immersis, fuscescentibus, vertice setis 5-7, angulatim flexuosis, articulatis, sursum conidia 2–3–septata, ovalia vel oblonga, dilutius colorata sustinentibus præditis; sporulis hyalinis, minutissimis, ellipsoideis, continuis.

Hab. in capsulis effœtis Syringæ vulgaris, Putten Hollandiæ.

18. **Vermicularia hibiscina** E. et E. Journ. Myc. 1888, pag. 123. — 5557
Peritheciis erumpentibus, subseriatis, 0,5 mm. diam., setulis nigris, dense vestitis, 80–100 ≃ 4.; sporulis falcato-fusoideis, 15–20 ≃ 3–4.

Hab. in Hibisco Manioth, Pointe à la Hache, Louisiana Amer. bor. (Langlois).

19. **Vermicularia corvina** Karst. et Har. Journ. Bot. 1890, p. 359. 5558
— Peritheciis sparsis, superficialibus, rotundatis, leniter applanatis vel lenticularibus, atris, undique setulis divergentibus, strictis, continuis, concoloribus, 85–100 ≃ 8, obsitis, ostiolo in statu humido sat lato pertusis, circ. 0,2 mm. diam.; sporulis fusoideo–bacillaribus, curvulis, continuis, hyalinis, 20–22 ≃ 2–3; basidiis 70–80 ≃ 0,5.

Hab. in ligno denudato et semiputrescenti Salicum, Taurini in Italia boreali (de Notaris). — *V. epixylæ* affinis.

20. **Vermicularia Tofieldiæ** Pat. in Rev. Myc., 1886, pag. 83. — Peritheciis minutis, sparsis, superficialibus, pilis filiformibus, nigris, circiter perithecio duplo longioribus; sporulis 21 μ. longis, hyalinis, curvis, continuis. 5559

Hab. in foliis exsiccatis Tofieldiæ, Thibet orient. Asiæ (Ab. David).

21. **Vermicularia Asparagi** Delacr. Bull. Soc. Myc. VI, 1890, p. 100, t. XV, f. VII. — Peritheciis subsuperficialibus, depressis, 250 ≃ 160 astomis, atris, setulis rigidis fuscis, apice pallidioribus, septatis, 60-100 ≃ 5 vestitis, gregariis, mycelio dematioideo intermixtis; sporulis hyalinis, cylindraceis, utrinque rotundatis, guttulatis, curvulis vel subrectis, 15-23 ≃ 2. 5560

Hab. in caule sicco Asparagi officinalis, Herblay prope Paris Galliæ. — *V. Dematio* sat affinis sed sporulis teretibus, dimidio angustioribus diversa.

22. **Vermicularia heterochæta** Passer. Diagn. F. N. IV, n. 99. — Peritheciis sparsis vel subgregariis, erumpentibus, atris, setosis, setis atris, brevibus, nonnullis 3-4-plo longioribus; sporulis fusiformibus, hyalinis, leniter curvis, muticis, 20 ≃ 3-4. 5561

Hab. in scapo Muscari comosi, Vigheffio prope Parma Italiæ borealis.

23. **Vermicularia Ophiopogonis** Pat. in Rev. Myc. 1886, pag. 83. — Peritheciis primo epidermide tectis dein liberis, atris, rotundis vel parum elongatis, setis nigris continuis præditis; sporulis fusiformibus, rectis vel parum curvatis, hyalinis, uniseptatis, 24-27 μ. longis. 5562

Hab. in foliis Ophiopogonis gracilis, Thibet Orient. Asiæ.

24. **Vermicularia veratrina** Ell. et Ev. Proc. Ac. Phil. 1891, p. 78. — Peritheciis irregulariter sparsis, minutis 75 μ. diam., plerumque supra imperfectis, lateraliter setis nigris, erectis, 70-150 ≃ 4-5 vestitis; sporulis fusoideo-cylindraceis, guttatis, utrinque subincurvis, 15-22 ≃ 2,5-3. 5563

Hab. in foliis subemortuis Veratri viridis, Wilmington Del. Amer. bor. (Commons).

25. **Vermicularia Heleocharidis** Pat. in Rev. Myc. 1886, pag. 181. — Minuta; peritheciis epidermide tectis, apice fasciculo parvo setarum septatarum, 50-65 μ. long. ornatis; sporulis hyalinis, continuis, fusoideis, rectis vel curvulis, uno apice acute mucronatis, 15-17 ≃ 5. 5564

Hab. in Heleocharide, Yunnan Sinarum (A. Delavay).

26. **Vermicularia Davalliana** Briard et Har. Rev. Myc. 1889, p. 16. — Peritheciis innatis, minutissimis, sparsis, subseriatis, $^1/_9$-$^1/_8$ mm.; pilis subulatis, nigris, opacis, 72-100 ≃ 5-6; sporulis fusoideis, leniter curvulis, obtusiusculis, obscure guttulatis, hyalinis, 24 ≃ 3-4. 5565

Hab. in foliis emortuis Caricis Davallianæ, Aube Galliæ.

27. **Vermicularia affinis** Sacc. et Briard in Rev. Myc. 1885. — Peritheciis nigris, innatis, in series parallelas dispositis, pilis brevibus rectis, paucis, epidermidem perforantibus præditis; sporulis falciformibus, hyalinis, simplicibus, 20-24 ≃ 4. 5566

Hab. in culmis siccis Graminaceæ cujusdam prope Troyes Galliæ.

28. **Vermicularia straminis** Cooke et Hark. in Grevillea XIII, p. 112. — Peritheciis subgregariis, globoso-depressis, atris, $^1/_3$ mm. diam., setis rigidis, 15 μ. long., sparsis, erectis ornatis; sporulis cylindraceis, utrinque rotundatis, rectis, continuis, hyalinis, 12 ≃ 3,5. 5567

Hab. in culmis in California (Harkness).

29. **Vermicularia Graminum** Bacc. Funghi Avellin. p. 372. — Peritheciis sparsis, globoso-depressis, nigris, setis rigidulis, basi atro-fuligineis, apice expallescentibus, obsolete septulatis vel continuis vestitis, membranaceis, nigro-viescentibus; sporulis navicularibus, utrinque obtusulis, 14 ≃ 2. 5568

Hab. in culmis putridis Graminum prope Scholam Œnologicam, Avellino Ital. inf.

30. **Vermicularia minima** Karst. Fr. XXIV, p. 24. — Peritheciis sparsis, innatis sphæroideis, fuligineo-atris, 50-75 μ. diam., setulis epidermidem perforantibus, longitudine peritheciorum; sporulis cylindraceis, rectis, eguttulatis, hyalinis, circ. 4-5 ≃ 1. 5569

Hab. in culmis aridis graminum (Poæ?) pr. Mustiala Fenniæ.

31. **Vermicularie Lolii** Fautr. Rev. Myc. 1891, p. 131. — Setis divaricatis, incurvis, 1-10 in acervos longe seriatos dispositis; sporulis fusoideis, acutis, incurvis, 22-26 ≃ 5,6. 5570

Hab. in caulibus et glumis Lolii perennis, Noidan Côte-d'Or Galliæ (F. Fautrey), sociâ *Puccinîâ coronatâ*. — «An *Colletotrichum?*».

32. **Vermicularia sanguinea** Ell. et Halst. in Journ. Myc. 1888, p. 8. — Maculis amphigenis, subellipsoideis, 2-3 mm. diam., primo minoribus et purpureis, dein majoribus et nigris, tandem centro albis, purpureo-cinctis; peritheciis erumpentibus, subconcentrice dispositis vel irregulariter sparsis vel in centro maculæ dense gregariis, depresso-globosis, supra pertusis, setis rectis, nigris, con- 5571

tinuis vel parce septatis, 60–90 ≃ 3–3,5 præditis; sporulis latis, arcuato-fusoideis, supra angustioribus et acutioribus, hyalinis, granulosis, guttatis, 20-22 ≃ 6.

Hab. in foliis Panici sp., Ames, Jowa Amer. bor. (Halsted).

33. **Vermicularia discoidea** Ell. et Langl. Journ. of Mycol. 1890, p. 37. 5572
— Peritheciis epidermide primo tectis, discoideis, 0,5-1 mm. diam., orbicularibus vel subellipsoideis, setulis rectis, continuis, nigris, 79-80 ≃ 4-5, basi subbulbosis, densiuscule et æqualiter vestitis; sporulis falcatis, utrinque acutis, 3-4-guttatis, hyalinis, 35-40 ≃ 5.

Hab. in culmis Panici proliferi, Pointe à la Hache Louisiana Amer. bor. (Langlois).

34. **Vermicularia Scolopendrii** Passer. Diagn. F. N. IV, n. 98. — Pe- 5573
ritheciis epiphyllis, crebre sparsis, in macula ampla, castaneo-fusca v. marginali v. folii partem magnam occupante, tectis, lenticularibus, membranaceis, fuscis, setis brevibus aut longiusculis, fusco-nigris, apice pellucidis, integris basi præsertim, vestitis; sporulis oblongo-ellipticis, integris, hyalinis, endoplasmate granuloso, 12–15 ≃ 4–5, interdum guttulatis, basidiis brevibus, crassiusculis fultis.

Hab. in foliis Scolopendrii officinarum in vase culti, Parma Ital. bor.

35. **Vermicularia cicadina** E. et K. Journ. Myc. 1887, p. 126. — Pe- 5574
ritheciis sparsis, depresso-hemisphæricis, 100-120 μ. diam., setis erectis, diffusis, opacis, continuis, 75 μ. long., basi subbulbosis, parce vestitis; sporulis arcuato-fusoideis, utrinque subacutis, hyalinis, circ. 22 ≃ 2,5, basidiis clavato-oblongis, circ. 10 ≃ 2,5.

Hab. in alis Cicadæ emortuæ, Manhattan, Kansas Americæ borealis.

DOTHIOPSIS Karst. Hedw. 1884, p. 20, Sphærops. Fenn. p. 15 (Etym. *Dothidea* et *opsis* facies), *Dothiora* et *Dothiorella* Auct. p. p. — Stromata depressa, erumpentia, subcarbonacea, atra, intus griseo-atra, unilocularia. Sporulæ ovales v. suballantoideæ, continuæ, hyalinæ. — Ad hoc genus præter species sequentes, spectant teste auctore quoque *D. pyrenophora* (Fr.) Karst. Cfr. Syll. III, p. 238 et *D. Syringæ* Karst. Cfr. Syll. III, p. 239.

1. **Dothiopsis Spirææ** Karst. et Har. Rev. Myc. 1890, n. 47. — Stro- 5575
matibus gregariis, per epidermidem fissam erumpentibus, ab laciniis ejus cinctis, pulvinatis v. globulosis, unilocularibus, atris, in-

tus pallidis, minutis; sporulis fusoideo-elongatis, rectis, 7-8 ≃ 1-1,5; basidiis falcatis, 18-21 ≃ 0,5.

Hab. in ramulis siccis Spirææ salicifoliæ, Torino Ital. bor. (DE NOTARIS). — *Dothiopsidi pyrenophoræ* var. *Salicis* Karst. proxima.

2. **Dothiopsis eunomia** Karst. Hedw. 1884, p. 20 et Sphærops. Fenn. p. 17. — Stromatibus gregariis, peridermio elevato rimose fisso tectis, vulgo rotundatis unilocularibus, 0,3-0,6 mm. lat., atris, intus in griseum vergentibus; sporulis elongatis, rectis vel leniter curvulis, eguttatis, hyalinis, 4-5 ≃ 0,5-1. 5576

Hab. in ramulis Fraxini excelsioris exsiccatis in agro mustialensi Fenniæ. — « An *Dendrophoma pruinosa*, prætervisis basidiis? ».

DOTHIORELLA Sacc. Syll. III, p. 235.

1. **Dothiorella diatrypoides** Sacc. et Berl. Misc. Myc. II, p. 29, t. IX, f. 15. — Acervulis transverse erumpentibus, pulvinatis, diatrypoideis, atris, 2 mm. latis; peritheciis dense congestis, globosis, minute papillatis, 1/6 mm. diam.; sporulis oblongo-fusoideis, 28-31 ≃ 9-11, pluriguttulatis, hyalinis; basidiis sporulâ paullo brevioribus, bacillaribus fasciculatis. 5577

Hab. in ramis emortuis corticatis Cerasi, Fiumicello prope Padova Ital. bor.

2. **Dothiorella Amygdali** Cooke et Massee Grev. XIX, p. 91. — Peritheciis innatis, botryose aggregatis, transverse erumpentibus, opace nigris, non papillatis, udis setis gelatinosis; sporulis ellipsoideis, hyalinis, intus granulosis, 22-25 ≃ 8-10; basidiis crassiusculis sporulas æquantibus. 5578

Hab. in cortice Persicæ et Amygdali communis, Victoria Australiæ (Mrs. MARTIN).

3. **Dothiorella Eucalypti** (B. et Br.) Sacc., *Sphæropsis* B. et Br. Brisb. III, p. 221, t. XXIX, f. 15-17. — Peritheciis globosis, in corpore sclerotioideo insidentibus, nigris, nitidis; sporulis linearibus, hyalinis, 25 μ. longis. 5579

Hab. in foliis Eucalypti, ut videtur, Melbourne Australiæ (Miss. CAMPBELL). — Stromata seu sclerotia laxe spongiosa, intus pallide brunnea, 4-7 perithecia ferentia.

4. **Dothiorella Robiniæ** Prill. et Delacr. Bull. Soc. Mycol. 1890, p. 137. — Peritheciis plus minus elongatis et irregularibus, stromate immersis; stromatibus fuscis, in cortice tumido apiceque perforato ni- 5580

dulantibus, librum infarcientibus; sporulis utrinque acutiusculis, biguttatis v. interdum triguttatis, 10,5-12 ≃ 3,5-4; basidiis rectis v. sæpius curvulis, acutis, 30 ≃ 1.

Hab. in cortice ramorum Robiniæ Pseudacaciæ, Herblay et Joinville-le-Pont pr. Paris Galliæ.

5. **Dothiorella Fraxini** (Lib.) Sacc. F. Ardenn. n. 150, *Ascochyta Fraxini* Lib. Crypt. I, n. 48 (1830). — Erumpenti-innata, difformis, atra; stromate ambiente effuso; peritheciis erumpentibus, connatis, globosis, papillatis; cirris albis; sporulis ovato-oblongis, 26-30 ≃ 12, granulosis, hyalinis, basidiis brevissimis suffultis. 5581

Hab. in cortice Fraxini excelsioris in Arduennis.

6. **Dothiorella Chimonanthi** Passer. Diagn. F. N. IV, p. 10. — Peritheciis cæspitoso-aggregatis, erumpentibus, globosis vel depressis, atris; sporulis ovalibus, hyalinis, integris, 5-7,5 ≃ 2,5-3; basidiis fasciculatis, continuis, ramosis, 20 μ. circiter longis. 5582

Hab. in ramulis aridis Chimonanthi fragrantis, Parma in horto botanico, Ital. bor. — Occurrunt quoque perithecia prorsus similia sed sporulis bacillaribus minutissimis hyalinis repleta, basidiisque nullis visis. An *Dothiorellæ* forma altera?

7. **Dothiorella guaranitica** Speg. F. Guar. II, n. 162. — Peritheciis v. loculis minutis, 80-90 μ. diam., globosis, dense constipatis, stromatibus verrucæformibus erumpenti-subsuperficialibus, laxe gregariis, atro-carbonaceis, contextu indistincto donatis immersis, albo-farctis; sporulis ovoideis, majusculis, 24-26 ≃ 12-15, crassiuscule tunicatis, granuloso-farctis, hyalinis, sterigmatibus papillæformibus brevibus ac crassis suffultis, atque paraphysibus longioribus filiformibus, densiusculis obvallatis. 5583

Hab. ad corticem ramulorum Citri Aurantii in cultis prope Guarapi Brasiliæ. — Stromata hemisphærico-suborbicularia, 0,5-1 mm. diam., atra, levia, apothecia lichenina simulantia. An status immaturus *Haplosporellæ* cujusdam?

8. **Dothiorella ilicicola** Oud. Contr. Mycol. XIII, p. 38, t. 8, f. 24. — Stromatibus carnosis, pulvinatis, erumpentibus, peridermate lacerato cinctis, undique sub villo pallide ochraceo, ex hyphis subtilissimis, p. m. crispatis, ramosis intertexto, absconditis, intus cavernis pluribus, ex ambitu globosis vel mutua pressione angulatis, pariete proprio carentibus præditis; sporulis maturis dilute roseis, sterigmate brevi, crassiusculo, hyalino suffultis, ovalibus, ovatis vel ovato-oblongis, continuis, episporio crassiusculo, intus densissime granulosis, 35 × 12. 5584

Hab. in ramis Ilicis opacæ in horto botanico Amsterdam Nederlandiæ (PLEMPER VAN BALEN). — «An potius *Fusicocci* species?».

9. **Dothiorella Myricariæ** Cooke et Massee Grev. XVI, p. 7. — Stromatibus gregariis, erumpentibus verruciformibus; peritheciis minutis, atris, subpapillatis, in quoque stromate haud numerosis; sporulis ovato-oblongis, 8–10 ≃ 6. 5585

Hab. in ramulis Myricariæ dahuricæ, Kew London Britanniæ.

10. **Dothiorella Winterii** Speg. F. Fueg. n. 391. — Stromatibus tuberculoso-subhemisphæricis, 1–3 mm. diam. cortice insidentibus, per peridermium erumpentibus ac subsuperficialibus, atris; peritheciis in stromate peripherice constipatis semiexsertis, globulosis, 150–180 μ., atris, glabris, astomis, subcarbonaceis, contextu indistincto; sterigmatibus di- v. tri-chotomis 18–20 ≃ 0,5–1, ramulis sæpius ovatis v. obclavatis, apice acutis, hyalinis; sporulis cylindraceis v. allantoideis, minutissimis 2–2,5 ≃ 0,5–0,8, hyalinis. 5586

Hab. in ramis emortuis Drymidis Winterii prope Port Cook in Staten island Fuegiæ.

11. **Dothiorella Mahagoni** Thüm. in Hanausek. Cfr. Bot. Centralblatt 1881, III, p. 33. — Stromate basilari subfusco, peritheciis simplicibus vel plerumque botryose aggregatis confluentibusque subdepresso-hemisphæricis, obscure fuscis, opacis; sporulis numerosis, pro ratione magnis, ellipticis vel interdum ovoideo-ellipsoideis utrinque rotundatis, pedicellatis vel basidiis brevibus hyalinis fultis, simplicibus, hyalinis vel pallidissime luteolo-tinctis, episporio levi, subcrasso, 21–25 ≃ 10–11. 5587

Hab. in fructibus Swieteniæ Mahagoni, ubi maculas nigras efficit, in India occidentali.

12. **Dothiorella Cedrelæ** Pat. Bull. Soc. Myc. 1891, p. 178. — Stromatibus erumpentibus, 0,5–1 mm. diam., nigris, in cortice interiore nidulantibus, gregariis sed liberis, coriaceis, 3–6-locularibus; loculis 100–150 ≃ 120; basidiis linearibus, hyalinis, simplicibus, 20 μ. longis; sporulis ovoideo-fusoideis, continuis, hyalinis, utrinque acutatis, 2-guttatis, 8–10 ≃ 2–5. 5588

Hab. in fructibus Cedrelæ bogotensis, Quito Æquatoriæ (LAGERHEIM).

13. **Dothiorella dryophila** Sacc. et Br. Rev. Myc. 1890, n. 47. — Peritheciis cæspitosis v. sparsis, innato-erumpentibus, initio albo-flavidis, dein nigris, oblongis v. globulosis, sæpe secus fibras ligni se- 5589

riatis; sporulis ovato-globulosis, hyalinis, sub microscopio lucentibus, 5-6 ≃ 3,5-4; basidiis brevissimis.

Hab. in schidiis quercinis, Saint Cloud Seine et Oise Galliæ (herb. Tulasne).

14. **Dothiorella Mori** Berl. Fungi Moricolæ fasc. I, tab. 8. — Erum- 5590
pens, epidermide laceratâ cincta; peritheciis aggregatis vel in stromate nidulantibus, vix papillatis, atris; nucleo albido, pulposo; sporulis ovato-oblongis, episporio crassiusculo donatis, intus granulosis vel minute guttulatis, hyalinis, 28-30 ≃ 12-14, continuis; basidiis filiformibus crassiusculis, brevibus suffultis, hyalinis, junioribus apice inflatis guttuligerisque, 20-30 ≃ 3-4.

Hab. in ramis corticatis emortuis Mori albæ et nigræ, Fiumicello Ital. bor.

15. **Dothiorella endorrhodia** Berl. Fungi Mor. fasc. I, tab. 8. — Pe- 5591
ritheciis 3-6-aggregatis, in stromate tecto dein epidermide scissa erumpente nidulantibus, atris, perforatis, globosis vel mutua pressione angulatis, nucleo amœne roseo farctis, demum evacuatis; sporulis ovato-oblongis, episporio crassiusculo, granulosis vel pluriguttulatis, continuis, dilute roseis, 25-28 ≃ 10-12; basidiis brevibus, crassiusculis, juvenilibus apice inflato, guttuligero, 20-25 ≃ 3-4, suffultis, hyalinis.

Hab. in ramis crassioribus emortuis Mori albæ, Padova Ital. bor. — Species perpulchra, peritheciis nucleo læte roseo donatis mox dignoscenda.

16. **Dothiorella corylina** Karst. Sphærops. Fenn. p. 46. — Perithe- 5592
ciis subcæspitosis v. solitariis, sphæroideis, atris, exiguis; sporulis elongatis, continuis, 3-4 ≃ 0,5-1.

Hab. in ramulis emortuis Coryli Avellanæ in Fennia meridionali, sociâ *Otthiâ corylinâ* Karst.

17. **Dothiorella decorticata** Ell. et Ev. Journ. Mycol. 1888. p. 50. — 5593
Peritheciis erumpentibus, supra depressis, plus minus confluentibus vel connatis, tubercula sparsa, minuta, 1-2 mm. lat. formantibus, subinde hyphis brunneis conspersis; sporulis ovoideis strato subgelatinoso obductis, hyalinis, 18-23 ≃ 12-16; basidiis obtusis sporulas subæquantibus.

Hab. in ramis decorticatis Populi, Louisiana Amer. borealis (Langlois).

18. **Dothiorella populina** Karst. Sphærops. Fenn. p. 45. — Perithe- 5594
ciis erumpentibus, sphæroideis, atris, exiguis; sporulis oblongatis, continuis, 5-6 ≃ 2.

Hab. in ramulis exsiccatis Populi nigræ in horto mustialensi Fenniæ. — Socia adest *Otthia populina* Karst.

19. **Dothiorella Celtidis** Peck 44 Rep. pag. 23. — Stromate minuto, depresso, suborbiculari, cortice interiori innato, dein erumpente; peritheciis stromate immersis; sporulis oblongis, obovatis v. subfusoideis, sæpe 2-nucleatis vel 3-nucleatis, hyalinis, 20–25 ≃ 7–8,5, subinde in massam albidam eructatis. 5595

Hab. in ramis emortuis Celtidis occidentalis, Saugerties Amer. bor.

20. **Dothiorella strobilina** (Lib.) Sacc. *Ascochyta strobilina* Lib. Crypt. III, n. 150 (1832). — Erumpens, rotunda, epidermide lacerata cincta, stromate nigro; peritheciis immersis, confertis, minutis, ostiolis globosis; cirris albis; sporulis cylindraceis utrinque rotundatis, 12–15 ≃ 2,5-3, hyalinis, basidiis plus dimidio brevioribus acicularibus suffultis. 5596

Hab. in pag. exteriore squamarum Abietum in Arduennis.

21. **Dothiorella Viscariæ** Karst. in Hedw. 1887, p. 127. — Stromatibus gregariis nonnumquam subconfluentibus, per epidermidem laciniatim fissam erumpentibus, planiusculis, forma variis ut plurimum rotundatis, fusco-atris usque ad 1 mm. latis; peritheciis stromate basi innatis, ovoideis, sæpe in papillam conoideam attenuatis, nigris, nitidis, exiguis; sporulis fusoideo-elongatis, rectis, 12–15 ≃ 3. 5597

Hab. in foliis putrescentibus Viscariæ vulgaris prope Mustiala Fenniæ (Onni Karsten).

22. **Dothiorella Nelumbii** Ell. et Anders. Bot. Gaz. 1891, p. 46. — Peritheciis sparsis, semierumpentibus, rugosis, nigris, supra pertusis, 150 μ. diam., depresso-sphæroideis vel sublenticularibus; sporulis oblongo-fusoideis, hyalinis, 15–22 ≃ 6-7. 5598

Hab. in receptaculo Nelumbii, Washington Amer. bor. — Facie *Sphærellæ* describitur, an ergo potius *Macrophoma*?

23. **Dothiorella pericarpica** Sacc. Myc. Austral. n. 83, fig. 5. — Peritheciis in cæspitulos erumpentes, atros, pulvinatos, tuberculosos, inæquales vix 1 mm. lat., botryose aggregatis, globoso-angulosis, minutis, intus pallidioribus; sporulis breve fusoideis rectis, rarius curvulis, 5-6 ≃ 2, hyalinis, continuis; basidiis e basi sporigera ochracea fasciculatim oriundis, bacillaribus, 25-30 ≃ 1,5, hyalinis. 5599

Hab. in pericarpio Macrozamiæ Denisonii, Australia.

RABENHORSTIA Fr. — Syll. III, p. 243.

1. **Rabenhorstia ribesia** Cooke et Mass. Grev. XVI, p. 7. — Stroma- 5600

te v. conceptaculo erumpente, globoso-truncato, sæpe discoideo intus pluriloculari, subcarbonaceo, atro; sporulis ellipsoideis, continuis, hyalinis, 20 ≃ 10.

Hab. in ramulis tenellis Ribis aurei, Kew London Britanniæ. — Habitus omnino *Plowrightiæ ribesiæ.*

2. **Rabenhorstia Fourcroyæ** Passer. Diagn. F. N. IV, n. 100. — Stro- 5601
matibus superficialibus aggregatis subglobosis, granuloso-rugosis atris et pruina crystalloidea, alba conspersis, intus subcarnosis fumidis, varie locellatis; sporulis minutulis oblongo-ovalibus integris ad polos nitide nucleatis, 5 ≃ 2, hyalinis; basidiis filiformibus, 15-20 μ. long.

Hab. in vagina putrescente foliorum caulinorum Fourcroyæ giganteæ in horto botanico Parma Ital. bor.

FUCKELIA Bon. — Syll. III, p. 244.

1. **Fuckelia? antarctica** Speg. F. Fueg. n. 394. — Stromatibus elli- 5602
pticis 2-5 mm. long., 1-2 mm. lat., densiuscule sparsis transverse erumpentibus pulvinulatis, margine truncatis, rarius subeffusis, superne applanatis, non v. vix scrupuloso-rugulosis, coriaceo-carnosulis ex atro v. fusco purpurascentibus; contextu densissime parenchymatico plus minusve distincto; loculis dense constipatis, non v. vix prominulis minutis 80-100 μ. diam.; sporulis globosis v. ovoideis 8-12 ≃ 8-10, inferne subapiculato-angulatis, crassiuscule tunicatis granuloso-farctis hyalinis; basidiis filiformibus longiusculis 10-15 ≃ 1-2, concoloribus.

Hab. ad ramos emortuos subputrescentes Fagorum in Staten island et propre Ushuvaia Fuegiæ. — Species statum spermogonicum *Cenangii australis* sistens, a genere satis tamen desciscens.

PLACOSPHÆRIA Sacc. Syll. III, p. 244.

1. **Placosphæria clypeata** Br. et Har. Journ. de Bot. 1891, p. 171. — 5603
Stromate innato, oblongo-lanceolato, convexo, intus et extus atrato, epidermide tumefacta et nigrificata, 1-2 mm. long., 0,3-0,5 mm. lat., obscure pluriloculari; ostiolis leniter prominentibus; sporulis numerosis, oblongis, obtusis, 2-guttatis, hyalinis, 6-8 ≃ 2,5-3; basidiis brevibus, sporulas æquantibus.

Hab. ad caules siccos Spirææ Ulmariæ, Droupt Sainte-Marie (Aube) Galliæ (P. Hariot).

2. **Placosphæria citricola** Berl. in Roum. Rev. mycol. 1888, pag. 78, 5604

t. 47. f. 3. — Stromatibus sparsis v. subgregariis, minutis, 150-200 μ. diam., erumpentibus, late conoideis, vix prominulis, atris, nitidis, carbonaceis; loculis haud bene distinctis, nucleis forma variis; sporulis minutissimis, 3-4,5 × 2, numerosis, hyalinis; basidiis sporulas æquantibus v. vix excedentibus.

Hab. in foliis adhuc vivis Citri Bigaradiæ, Tonkin (Balansa).

3. **Placosphæria Onobrychidis** (DC.) Sacc. Syll. III, p. 245. — Var. **minuta** Brunaud Liste Sphærops. pag. 24. — Stromatibus 4-5 mm. longis, 2-3 mm. latis. 5605

Hab. in foliis et caulibus Onobrychidis sativæ pr. Saintes Galliæ. — Var. **exappendiculata** Brun. l. c. Stromatibus crustaceis, nigris vel brunneo-nigris, ovoideis, oblongis vel irregularibus, minutis, totum folium vel partem ejus tegentibus, sæpe caulicolis, intus fuscescentibus; sporulis subsphæroideis vel ovoideis, irregularibus, hyalinis, 7-8 × 4-5, exappendiculatis. In p. sup. et inf. foliorum et in caulibus Onobrychidis sativæ, Arces Galliæ.

4. **Placosphæria Sedi** Sacc. — Syll. III, p. 245 — var. **Loti** Berl. Exc. Frioul p. 23. — Stromatibus sparsis, piceis, parum prominentibus, intus obscure locellatis, ellipsoideis, epidermide velatis, usque 1 mm. long.; sporulis cylindraceis, valde curvatis, utrinque rotundatis, continuis, non guttulatis, 21-24 × 3, hyalinis; basidiis brevibus. 5606

Hab. in caulibus emortuis Loti corniculati, Osoppo Friuli Ital. bor.

5. **Placosphæria Genistæ** Brun. Miscell. Mycol. p. 17. — Stromatibus sparsis, brunneo-nigris, nitidis, planis, circularibus v. suboblongis, intus brunneis; sporulis ovoideis, hyalinis, 4 × 2,7-3, continuis. 5607

Hab. in foliis ramulisque Genistæ tinctoriæ, Fouras Galliæ.

6. **Placosphæria Bartsiæ** C. Mass. Contr. Mic. Ver. p. 86, t. II, f. 11. — Peritheciis sæpe confluentibus, dein erumpentibus, sepimentis locellatis, in stromate applanato, maculiformi, epidermide velato, nigro, intus pallido insidentibus; basidiis tennissimis, 18 μ. circiter long., ramosis; sporulis breviter cylindraceis, extremitatibus obtusis, hyalinis, 4-5 × 1,8. 5608

Hab. in pag. inf. foliorum Bartsiæ alpinæ, Passo della Lora in prov. veronensi.

7. **Placosphæria Campanulæ** (DC.) Bäuml. Crypt. Presb. p. 10, *Xyloma* DC. Mem. Mus. H. N. III, p. 323, t. III, f. 10, *Phyllachora* Fuck., Syll. II, pag. 615. — Stromatibus folio innatis, gregariis, 5609

70-300 μ. diam., fusco-nigris, intus 1-8-locellatis; sporulis cylindraceis 3-5 ≃ 1, subrectis, hyalinis; basidiis 10-15 ≃ 1.

Hab. in foliis Campanulæ Trachelii in Gallia, Germania, Hungaria. — *Pyrenopeziza Campanulæ* Fuck., Syll. VIII, p. 357, forte in Placosphæria parasitatur.

8. **Placosphæria Urticæ** (Lib.) Sacc. Fung. Ard. n. 153, *Xeilaria* Lib. Crypt. I, n. 62 (1830). — Habitus *Rhytismatis Urticæ* (Cfr. Syll. VIII, p. 755), sporulis fusoideis, curvulis, granulosis, hyalinis, 20-25 ≃ 4; basidiis teretiusculis 15-18 ≃ 3. 5610

Hab. ad caules Urticæ dioicæ in Arduennis (Libert).

9. **Placosphæria Caa-catù** Speg. Guar. I, p. 144. — Maculis nullis vel hypophyllis, minutis, fuscescentibus, stromatibus sparsis, irregulariter subelliptico-orbicularibus, 1-1,5 mm. diam. vix pulvinulato-prominulis, atro-fuscis, glabris, rugulosis, coriacellis, contextu indistincto, opaco; loculis paucis globulosis vel e mutua pressione angulosis, 100-150 μ. diam.; sporulis ellipticis v. subnaviculariis, utrinque obtusis 12-16 ≃ 4-6, dense granuloso-nubilosis. 5611

Hab. ad folia viva arboris cujusdam Caa-catù vocatæ in silva subvirginea Caa-guazù Brasiliæ.

10. **Placosphæria Pestis-nigra** Speg. Guar. I, pag. 144. — Stromate parum manifesto, innato, ramulos foliaque omnia ac tota ambiente eaque tamen vix deformante, sed intense nigrificante; loculis parenchymate immersis vix ad epiphyllum prominulis ac perspicuis, minutis, globoso-lenticularibus 90-110 μ. diam. densiuscule sparsis, non confluentibus, atris, glabris, levibus; sporulis ellipticis, utrinque obtusatulo-rotundatis, 2,5-3 ≃ 1, hyalinis. 5612

Hab. ad folia viva Malpighiaceæ cujusdam in dumetis pr. Paraguarì Brasiliæ. — Status spermogonicus *Phyllachoræ Pestis-nigræ.*

11. **Placosphæria? acalyptosporides** Speg. Guar. I, p. 144. — Maculis determinatis, stromatibus atris, amphigenis, tenuibus, coriacellis, irregulariter angulosis, majusculis 3-6 mm. diam., sæpius secundum nervos secundarios evolutis, glabris vel minute rugulosis; stromate intus albo, loculis minutis, densissimis, labyrinthoideo-cerebrinis; sporulis non visis. 5613

Hab. ad folia viva Eugeniæ speciei cujusdam in dumetis pr. Guarapì Brasiliæ.

12. **Placosphæria Allii** Karst. et Har. Rev. myc. 1890, n. 47. — Stromatibus gregariis, parallelis, per rimas epidermidis erumpentibus, linearibus, angustissimis, convexis, atris, intus pallidis, uni- v. plu- 5614

rilocularibus, usque ad 1 mm. longis; sporulis oblongatis, rectis, vulgo 2-guttulatis, 5-7 ≃ 1,5-2; basidiis brevissimis.

Hab. ad Allium Porrum in Gallia circa Andegavum (herb. Guépin). — Vergit ad *Fusicoccum* nec non paullulum ad *Leptostroma*.

13. **Placosphæria Calami** Delacr. Bull. Soc. Myc. 1890, p. X. — Stromatibus in longitudinem et parallele seriatis, atris, epidermide tectis, intus diverse locellatis; sporulis ovoideis, continuis, hyalinis, 14- ≃ 7-8; basidiis minimis. 5615

Hab. in culmis Calami, Tonkin Sinarum.

14. **Placosphæria Balansеana** Sacc. et Roum. in Rev. Myc. 1886, p. 20. — Stromatibus parallele seriatis, elongatis, utrinque acutis, prominentibus, sæpius hypophyllis, colliculosis, atris, plurilocellatis; sporulis fusoideis, 6-8 ≃ 1,5-2, hyalinis; basidiis filiformibus, simplicibus vel ramulosis, 20-25 ≃ 1-1,5. 5616

Hab. in foliis vivis Palmarum, Paraguay Brasiliæ.

15. **Placosphæria? scirrhioides** Speg. Guar. I, p. 143. — Maculis nullis vel hypophyllis, parvulis, linearibus, ferrugineis; stromatibus epiphyllis longitudinalibus, laxe gregariis vel sparsis, lineari-elongatis 1-5 mm. long., 0,20-0,25 lat. rectis epidermide fissa tectis, atris, glabris; peritheciis stromate immersis, globulosis e mutua pressione e latere compressis 150-180 ≃ 100, ostiolo parvulo papillulato perforatis, membranaceis, contextu indistincto, fusco; sporulis ellipticis vel ovoideis, utrinque obtusiusculis 5 ≃ 1,5, primo hyalino-chlorinis, dein dilute fumosis. 5617

Hab. ad folia viva Bambusaceæ cujusdam in silva subvirginea Caa-guazù vocata in Brasilia. — Ob sporulas subcoloratas facile novi generis typus.

16. **Placosphæria rimosa** Oud. Contr. Mycol. XIII, p. 39. — Stromatibus nigris, caulicolis (neutiquam foliicolis aut vaginicolis), numerosis, pulvinatis in longitudinem culmi elongatis, $^1/_2$-3 mm. longis, $^1/_4$-$^1/_2$ mm. latis, in vertice suo sulco exaratis, infra epidermidem strataque cellularum corticalium 1 ad 2 hyalina, celatis, locellorum, nunc majori, tunc iterum minori numero in series dispositorum, strato unico (an semper?); sporulis hyalinis, singulis basidio hyalino suffultis, oblongis, 12 ≃ $2^2/_3$ rectis aut subcurvatis 2-4-guttulatis. 5618

Hab. in culmis Phragmitis communis, Loosduinen Nederlandiæ (Dom. Destrée).

17. **Placosphæria? magellanica** Speg. F. Pat. n 168. — Stromatibus 5619

sparsis parenchymate innatis, prominulis, lenticularibus v. lenticulari-subconoideis 280-350 μ. diam., atris, glabris, rugulosis, 1-3-locularibus, membranaceo-coriacellis, contextu grosse parenchymatico-celluloso, fuligineo-atro; basidiis non visis; sporulis minutissimis, cylindraceis 3-4 ≃ 0,5, utrinque truncatis sæpeque minute biguttulatis, hyalinis.

Hab. ad folia emortua putrescentia Bromi macranthi pr. Gregory bay Patagoniæ. — Species facillime ad genus *Melasmia* transferenda.

ANTHRACODERMA Speg. F. Fueg. n. 392 (Etym. *anthrax* carbo et *derma*). — Stroma innato-superficiale atrum carbonaceum rigidum, loculis plus minusve prominulis denseque constipatis præditum. Sporulæ elongatulæ, continuæ, hyalinæ. — Genus singulare in Cyttarieis parasiticum.

1. **Anthracoderma Hookeri** Speg. F. Fueg. n. 392. — Stromate atro carbonaceo totam matricem crusta carbonacea fragili obtegente; loculis dense constipatis globulosis 150-180 μ. diam. vix prominulis rugulosis atris, astomis? (an minute perforatis?), contextu indistincto; sporulis fusoideis utrinque attenuatis ac acutato-obtusatis 10-15 ≃ 3-4, inæquilateralibus, non vel granuloso-farctis, hyalinis. 5620

Hab. ad Cyttariam Hookeri emortuam in ramulis Fagorum in Basket island Fuegiæ.

2. **Anthracoderma selenospermum** Speg. F. Fueg. n. 393. — Stromate sæpius basin matricis tantum anulatim cingente, rarius per totam matricem diffuso, tumidulo carbonaceo atro glabro; loculis ovoideis vel obovatis, plus minusve exsertis, 350-450 ≃ 150-200, sursum obtusis non vel vix ostiolato-perforatis levissimis glabris atris carbonaceis, contextu indistincto; sporulis e strato proligero immediate oriundis, cylindraceis, falcatis vel uncinatis, utrinque obtusiusculis 12-20 ≃ 2-2,5, granuloso-farctis, hyalinis. 562

Hab. ad Cyttariam Hookeri? languidam in ramulis Fagorum prope Agaia et Brecknok pass Fuegiæ.

GAMOSPORELLA Speg. F. Guar. II, n. 165 (Etym. a *Gamospora* cui affine genus). — Stromata erumpentia atra subcarbonacea intus dense minuteque peritheciigera vel loculigera. Sporulæ fusoideæ multiguttulatæ, quaternatim basi connatæ, hyalinæ, in sterigmatibus minutis acrogenæ.

1. **Gamosporella hysterioides** Speg. F. Guar. II, n. 165. — Stroma- 5622

tibus linearibus utrinque acutiusculis, laxe gregariis sæpe subseriatis minutis 1-1,5 mm. long., 0,25-0,3 mm. lat., epidermide primo tectis dein erumpentibus, atris carbonaceis; loculis (an perithecii?) minutis 80-100 μ. diam. dense constipatis sæpeque confluentibus stromate immersis albo-farctis; sporulis fusoideis utrinque acutis 15-20 ≃ 2-2,5, 5-9-guttulatis, continuis, quaternatim basi aggregatis, centrali ceteris sæpius longiore, in sterigmatibus minutis papillæformibus e strato proligero prominulis acrogenis.

Hab. ad culmos dejectos putrescentes Paniceæ cujusdam in silvis uliginosis prope Paraguarì Brasiliæ.

FUSICOCCUM Corda. — Syll. III, p. 247.

1. **Fusicoccum complanatum** Delacr. Bull. Soc. Myc. 1891, pag. 110, t. VIII, f. *k*. — Stromatibus elongatis, nigris, peridermio innatis, loculis parcis, compressis, ostiolo communi; sporulis fusoideis, hyalinis, guttulatis, 9-10 × 3,5, apice basidiorum acicularium 15-18 ≃ 1 acrogenis; pseudoparaphysibus (in loculis vetustis) tortuosis, septatis, guttulatis, 4-5 μ. cr. 5623

Hab. in ramis exsiccatis Piri Mali, Coigny (Manche) Galliæ.

2. **Fusicoccum Malorum** Oud. Contr. Flor. Myc. Pays-Bas XI, p. 29. — Stromatibus verruciformibus, nigris, erumpentibus, forma variis, superficie valde inæquali, intus spurie plurilocularibus, loculis circumcirca basidiis rectis longiusculis vestitis, singulis sporulas fusiformes, hyalinas, continuas, utrinque angustatas, 7-9 × 2-3, seriatim gerentibus. 5624

Hab. in epicarpio Malorum putrescentium, Amsterdam Hollandiæ.

3. **Fusicoccum? Cactorum** Speg. F. Guar. II, n. 163. — Stromatibus parenchymate innatis majusculis, 0,5-1 mm., epidermide tectis adnatisque extus non vel vix manifestis, inferne hemisphærico-conoideis, superne applanatis, papillula (ostiolo?) epidermidem perforante donatis, atris, glabris, coriaceis, duris, fere sclerotiaceis, intus pallescentibus ac irregulariter (tuberis instar) loculis minutis 60-70 μ. diam., sæpe in unum apicalem confluentibus ornatis; sporulis ellipticis vel subovoideis 14-15 × 5-6 non vel granuloso-farctis, hyalinis. 5625

Hab. ad ramos dejectos putrescentes Cerei arborei cujusdam in silvis Callè-poi prope Yaguaron Brasiliæ. — Species anomala perpulchra in parte interna corticis tantum manifesta.

4. **Fusicoccum cryptosporioides** Bomm. Rouss. Sacc. Contr. Myc. 5626

Belg. IV, p. 80. — Stromate applanato, subepidermico, udo brunneo-nigricante, sicco magis depresso griseo-olivaceo, *Tympanidis* fere instar, 1-2 mm. diam., peridermio cincto; peritheciis confertis; sporulis subfusoideis utrinque obtusulis curvulis, hyalinis, granulosis medio 1-guttatis, 27-34 ≃ 6-7; basidiis cylindraceis tortuosis, 21-40 ≃ 3-4.

Hab. in ramis corticatis emortuis Fraxini excelsioris, Haeren, Peuthy Belgii.

5. **Fusicoccum macrosporum** Sacc. et Briard in Rev. Myc. 1886, p. 156. — Stromate parum elevato, convexo, obtuso, epidermidem elevante atque demum rumpente, eaque cincto, pluriloculari, nucleis albis farcto; sporulis oblongis, hyalinis, guttulatis, granulosisque, obtusis, sed utrinque vix attenuatis, 44-48 ≃ 12-14; basidiis hyalinis, brevissimis. 5627

Hab. in ramis emortuis delapsisque Fagi silvaticæ, socio *Asterosporio Hoffmanni,* Troyes Galliæ.

6. **Fusicoccum umbrinum** (Bonord.) Berl. et Vogl. Add. Syll. n. 4657, *Coronium umbrinum* Bon. Abh. Geb. Myk. pag. 132. — Gregarium; stromate ovato, subtus plano, umbrino, cortici adnato, epidermide fissa erumpente, ostiolo simplici pertuso; sporulis fusiformibus, minutis, hyalinis, uno latere rectis, altero curvatis; pustulis ellipticis. 5628

Hab. in cortice Coryli in Guestphalia.

7. **Fusicoccum asperum** (Bonord.) Berl. et Vogl. Add. Syll. n. 4656, *Coronium asperum* Bon. Abh. Geb. Myk. p. 132. — Gregarium; pustulis oblongis seu ellipticis, stromate ceraceo, griseo, disco pallido, erumpente, poro simplici pertuso; basidiis virgato-ramosis; sporulis longis, fusiformibus, utrinque acutissimis, curvatis, hyalinis. 5629

Hab. in ramis Quercus in Guestphalia.

8. **Fusicoccum Brunaudi** Pass. in Journ. hist. nat. Bord. 1885, p. 136. Brun. Liste Sphærops. p. 25. — Pulvinatum, erumpens, sursum et intus album, obscure locellatum; sporulis cylindraceo-fusiformibus, hyalinis, 17-18 ≃ 2,5-3. 5630

Hab. in ramis crassioribus Quercus, Pessines, Cozes, Bougnaud Galliæ.

9. **Fusicoccum Quercus** Oud. Contr. Mycol. XIII, p. 42. — Stromatibus in longitudinem ramorum erumpentibus, 3 m'm. ad maximum longit., rotundis vel ellipticis peridermatis laciniis circumdatis, nigris, primitus connexis, exsiccando applanatis, intus distincte plu- 5631

rilocellatis; sporulis in quocumque locello numerosissimis, achromis, continuis, utrinque obtusis, $14 \simeq 3^1/_2$.

Hab. in ramis Quercus Roboris, Schéveningue Nederlandiæ (Dom. Destrée). — A *F. quercino* satis diversum.

10. **Fusicoccum coronatum** Karst. — Syll. III, p. 250. — Var. **salicinum** Karst. Symb. myc. XXVI, p. 17. — Typo simillimum, laciniis vero epidermidis non nigrificatis cinctum; sporulis $10\text{-}15 \simeq 2\text{-}2{,}5$. 5632

Hab. in foliis putrescentibus Salicis phylicæfoliæ pr. prædium Saaris in parœcia Tammela Fenniæ.

11. **Fusicoccum Betulæ** Cooke Grev. XVI, p. 48. — Stromatibus nigris erumpentibus, sparsis, verruciformibus, nucleo albo; sporulis fusoideis, continuis, hyalinis, $20\text{-}25 \simeq 6$; basidiis simplicibus v. furcatis. 5633

Hab. in ramis Betulæ papyraceæ, Kew London Britanniæ.

12. **Fusicoccum populinum** Delacr. Bull. Soc. Myc. 1891. p. 110, t. VIII, f. 1. — Stromatibus subcutaneis, epidermide tumida et fissa erumpentibus, conicis, intus sordide albidis, parietibus longitudinalibus, dilute olivaceo-fuscis, in 4-5 locellos divisis; sporulis ovoideis basi attenuatis, apice basidiorum acicularium, $18\text{-}20 \simeq 1{,}5$, acrogenis; pseudoparaphysibus (in peritheciis vetustis) 3 μ. cr., septatis, interdum sursum furcatis. 5634

Hab. in cortice Populi fastigiatæ pr. Chartres (Eure-et-Loire) et Egly (Seine-et-Oise) Galliæ. — A *Dothiorella populea* diversum.

13. **Fusicoccum microspermum** Har. et Karst. Rev. Myc. 1890, p. 2. — Stromatibus solitariis v. concrescentibus, erumpenti-superficialibus, verruciformibus v. pulvinatis, colliculosis, coriaceo-carbonaceis, atris, intus plurilocularibus, 2-3 mm. latis; sporulis oblongatis, rectis, continuis, hyalinis, $3 \simeq 0{,}5\text{-}1$. 5635

Hab. ad Terminaliam (?) in insula Ceylon. — Fere æquo jure ad *Rabenhorstiam* ducitur.

14. **Fusicoccum abietinum** (Hart.) Prillieux et Delacroix, *Phoma abietina* Hartig, *Dothiorella pitya* Bull. et Delacr. Bulletin de la Société Mycologique de France Année 1890, fasc. II, p. 98, planche XV, figures IX, X, XI, nec Sacc. — Stromatibus atris, conicis, subgregariis, peridermio tumido apiceque pertuso immersis, 400-600 μ. circiter diam., intus plurilocellatis; centralibus disseptis tenuibus, dilute fulvo-olivaceis; sporulis hyalinis, fusoideis utrinque acutis, rectis, pluriguttatis, $12\text{-}14 \simeq 5\text{-}6$, basidiis acutatis, $10\text{-}15 \simeq 1{,}5\text{-}2$. 5636

Hab. in cortice Abietis excelsæ, quam valde vexat, in Bavaria (Hartig), Gerardmer in Vogesis (Mer, d'Arbois de Jubain-

VILLE). — Non idem ac *Dothiorella pilya* Sacc., a qua præcipue stromatum formâ differt.

15. **Fusicoccum bacillare** Sacc. et Penz. Syll. III, p. 248 — var. **acuum** 5637
Fautr. Rev. myc. 1892, p. 9. — Sporulis 14–16 ≃ 2–2,5.

Hab. in acubus Abietis excelsæ, Côte-d'Or Galliæ.

CYTOSPORELLA Sacc. — Syll. III, p. 251.

1. **Cytosporella aculeorum** Passer. Diagn. F. N. p. 10. — Stromate 5638
subsuperficiali, sphæroideo, atro, nitido, pauciloculari; sporulis minutissimis, ovoideis, oblongis, in cirros longissimos protrusis, acervatim pallide olivaceis, singulatim hyalinis.

Hab. in aculeis Rosæ caninæ, Vigheffio pr. Parma Ital. bor.

2. **Cytosporella conspersa** Rich. Cat. Champ. Marn. in Suppl. p. 543. 5639
— Peritheciis e stromate pycnidiophoro orientibus, ovoideis, nigris; sporulis hyalinis, ellipsoideis, 3 μ. long.; sporophoris continuis, simplicibus v. subramulosis.

Hab. ad ramos emortuos Pini Mali, St.-Amand et St.-Lumier, Marno Galliæ. — Pycnidium *Tympanidis conspersæ* sistit.

3. **Cytosporella subsimplex** Berl. et Bres. Micr. Trid. p. 65. — Stro- 5640
matibus sparsis, conoideis, tectis, intus vix 2–4-locularibus v. etiam subinde unilocularibus, 0,5–0,6 mm. diam.; sporulis numerosissimis in cirrum lutescentem protrusis, ovoideis, 3–4 ≃ 2–2,5, basidiis longioribus, hyalinis.

Hab. in ramis emortuis Coluteæ arborescentis prope Trento.

4. **Cytosporella? antarctica** Speg. F. Fueg. n. 396. — Peritheciis pe- 5641
ridermio tectis, stromate nullo, subliberis, valsiformiter aggregatis, atris, subcarbonaceis, minutis, 180–200 μ. diam.; ostiolis minutis conniventibus ac disculum peridermium perforantem non vel vix exsertum efficientibus; sporulis minutis, cylindraceis v. suballantoideis, utrinque obtusis, 2–3 ≃ 0,8–1, hyalinis.

Hab. ad ramos emortuos Ribis magellanicæ in silvis pr. Ushuvaia Fuegiæ. — Statum spermogonicum *Cacosphæriæ antarcticæ* sistit.

5. **Cytosporella Populi** Oud. Contr. Mycol. XIII, p. 42. — Stromati- 5642
bus corticolis, innato-erumpentibus, applanato-verrucosis, 1–2 mm. latis, nigris nitidulis, ambitu irregulariter sinuosis, intus ubi lamellæ tenues contra lucem explorantur, hyalinis, imperfecte locellatis, basidiis p. m. 25 μ. longis; sporulis fere perfecte globosis, hyalinis, basi paullum contractis, 7 μ. diam.

Hab. in ramis Populi Schéveningue Nederlandiæ (Dom. DESTRÉE).

6. **Cytosporella? macrorrhyncha** Speg. F. Fueg. n. 395. — Stromatibus hinc inde sparsis, per peridermium tuberculose erumpentibus, 2-5 mm. lat., atris, subcarbonaceis, loculis distinctis, globulosis, 400-450 μ. diam., in ostiolum crassum longissimumque, 0,5-1,5 mm. long., 300-400 μ. cr., atrum, rectum v. tortuosum, apice truncatum v. bulloso-inflatum, carbonaceum productis; sporulis cylindraceo-ellipticis, utrinque truncatis v. rotundatis, 2-2,5 ≃ 1 ac minute 1-guttulatis, hyalinis; basidiis filiformibus longiusculis, 25 ≃ 0,8-1. 5643

Hab. in cortice vetusto subvivo Fagi betuloidis in Staten island Fuegiæ.

7. **Cytosporella Ostryæ** Berl. et Bres. Micr. Trid. p. 65. — Perithe- 5644
ciis acervulatim aggregatis, minutis, nucleo niveo farctis, stromate nigro immersis, epidermide orbiculatim nigrificata, clypeum stromaticum simulante tectis, areolis nigris, 1 mm. diam., subinde confluentibus, centro rimose ruptis; sporulis globosis, 4-5 μ. diam., hyalinis; basidiis sporula multo longioribus, subinde longissimis, ramosis, hyalinis, crassiusculis.

Hab. in ramis corticatis Ostryæ carpinifoliæ, Trento.

8. **Cytosporella Chamæropis** Passer. Diagn. F. N. IV, n. 101. — Pu- 5645
stulis globosis vel irregularibus, epidermide lacerata cinctis; peritheciis subglobosis, stromate atro insidentibus; sporulis minutissimis, innumeris, globosis, maxime refringentibus, basidiis filiformibus longiusculis.

Hab. in petiolis putridis Chamæropis humilis in Horto botanico, Parma Ital. bor.

CYTOSPORA Ehrenb. — Syll. III, p. 252.

1. **Cytospora Ampelopsidis** C. Mass. Contr. Mic. Ver. pag. 86, t. II, 5646
f. 12. — Stromatibus subdisciformibus, convexo-applanatis, nigris, in cortice nidulantibus, eademque omnino occultis, poris minutis, apice perviis, intus multilocularibus, loculis polymorphis; sporulis 4-6 ≃ 1-1,5, numerosissimis, oblongis, subcurvulis, utrinque obtusis, basidiis fere 20 μ. long. suffultis, ex poris plerumque in cirros madore carneos, siccitate succineo-rubros expulsis.

Hab. in ramis corticatis Ampelopsidis hederaceæ, Tregnago prov. Veronæ. — Stromatibus peridermio omnino tectis a *C. Vitis* in primis distincta.

2. **Cytospora evonymella** Passer. Diagn. F. N. IV, p. 10. — Stromate subcutaneo-erumpente, subgloboso, pluriloculari, atro; sporulis minimis, allantoideis, hyalinis, 2,5 ≃ 0,5; basidiis fasciculatis, bacillaribus, longioribus crassioribusque. 5647

Hab. in foliis dejectis Evonymi japonici, Livorno Ital. mediæ.

3. **Cytospora Evonymi** Cooke in Grevillea XIV, pag. 4. — Gregaria; stromatibus conicis, epidermide brunneola tectis, parvis, demum nigrescentibus, lucidis; sporulis allantoideis, curvatis, hyalinis, 8 ≃ 2. 5648

Hab. in ramulis Evonymi americani, Kew Britanniæ.

4. **Cytospora cincta** Sacc. — Syll. III, p. 254. — ***amygdalina** Karst. Rev. Myc. 1889. — Stromatibus subcutaneis, depressis, disco erumpente albido, poro unico, loculis numerosissimis circinantibus; sporulis cylindraceis, curvulis, 7-10 ≃ 2, in cirrum crassum fuscescenti-fulvum protrusis. 5649

Hab. in ramis corticatis emortuis Amygdali nanæ ad Mustiala Fenniæ.

5. **Cytospora dendritica** Berl. et Vogl. Funghi Ancon. p. 4. — Stromatibus plurilocularibus intus nucleo albo farctis; basidiis pluries verticillato-ramosis; sporulis allantoideis, minutis, 3-4 ≃ 0,5, hyalinis. 5650

Hab. in sarmentis emortuis Rubi, Angelo prope Ancona, sociâ *Valsâ Rubi,* cujus est status spermogonicus.

6. **Cytospora microstoma** Sacc. Syll. III, p. 254. — Var. **Cotoneastri** Cooke in Grevillea XIII, p. 93: sporulis 6-7 ≃ 1,5. 5651

Hab. in Cotoneastro frigida, Kew. Brit. — Var. **Amelanchieris** Cooke l. c., sporulis 5-6 μ. long. — In Amelanchiere, Kew, London Brit.

7. **Cytospora Clematidis** Oud. Contr. Mycol. XIII, p. 43. — Stromatibus plurilocellatis, locellis piriformibus; basidiis brevibus; sporulis cylindraceis, utrinque obtusis, curvulis, hyalinis, 7 ≃ 2, eguttulatis. 5652

Hab. in sarmentis Clematidis Vitalbæ, Bois de la Haye Nederlandiæ (Dom. Destrée).

8. **Cytospora Viburni** Fautr. in Rev. Myc. 1891, p. 171. — Stromatibus majusculis, 1,5 mm. diam., griseis, loculis 15-20 immersis, longicollibus, in discum pulvereum desinentibus; sporulis cylindraceis, curvulis, attenuatis, 2-guttulatis, vibrantibus, 5,5 ≃ 0,7. 5653

Hab. in ramis emortuis Viburni Lantanæ, Noidan (Côte-d'Or) Galliæ.

9. **Cytospora Lantanæ** Bres. Rev. Myc. 1891, p. 28, t. 114, fig. VI. 5654
— Stromatibus conoideo-depressis, uni-plurilocularibus, subcutaneis, 0,5-0,6 mm. lat., ostiolo centrali subprominente, nucleo olivaceo-fuligineo; sporulis cylindraceis, curvulis, hyalinis, 7-8 ≃ 1,5-2; basidiis simplicibus, irregulariter ramosis vel verticillato-ramosis, 25-35 ≃ 2-3,5.

Hab. in ramis Viburni Lantanæ prope Leutschau Hungariæ.

10. **Cytospora Greschikii** Bres. Rev. Myc. 1891, p. 27, t. 114, f. V. 5655
— Stromatibus uni-plurilocularibus, conico-truncatis, gregariis, subcutaneis, 0,7 mm. diam., disco erumpente, circulari, albo, ostiolo centrali, nigro, subprominente; sporulis cylindraceis, curvulis, hyalinis, 8 ≃ 2; basidiis iterato furcatis.

Hab. in ramis Myricariæ germanicæ pr. Leibitz Hungariæ (V. Greschik).

11. **Cytospora grandis** Peck 40 Rep. pag. 60. — Pustulis latis, 4-6 5656
mm. diam., ellipsoideis v. suborbicularibus, cicatriciformibus, erumpentibus ferrugineis, loculis numerosis; sporulis minutis curvulis, 5 μ. long.

Hab. in cortice emortuo Rhois typhinæ, Gansevoort Americæ borealis.

12. **Cytospora magellanica** Speg. F. Fueg. n. 399. — Stromatibus 5657
laxe sparsis, cortice insidentibus, peridermio subrelaxato tectis, e clypeato-conoideis, 1-1,5 mm. diam., centro papilla conico-cylindracea atra perforante non v. vix exserta ac truncata donatis; loculis paucis, subcircinatis, parvulis, 150-180 μ. diam., albo-farctis, sporulis allantoideis, utrinque acutiuscule rotundatis, 5 ≃ 1, plus minusve curvulis, hyalinis.

Hab. ad ramos emortuos putrescentes Ribis magellanicæ in Hope harbour Fuegiæ.

13. **Cytospora Jasmini** Cooke in Grevillea XIV, p. 4. — Stromatibus 5658
conicis, subcutaneis, parvis, cuticula obscura tectis, laxe gregariis; sporulis linearibus, curvatis, obtusis (allantoideis), 6 ≃ 1.

Hab. in ramulis Jasmini officinalis, Kew Britanniæ.

14. **Cytospora Fraxini** Delacroix Bull. Soc. Myc. Fr. 1890, p. 184, plan- 5659
che XX, fig. V. — Stromatibus sparsis, minutis, subapplanatis, sub epidermide nigrificata rimose fissâ, secundum longitudinem dispositis, loculis satis numerosis, ostiolo communi centrali, leviter prominente; sporulis rectis hyalinis, ovato-cylindraceis, crasse 2-guttulatis, 7 ≃ 2,5; basidiis acicularibus, 10 μ. longis.

Hab. in ramis siccis corticatis Fraxini excelsioris, Mareil-Marly prope Parisios.

15. **Cytospora Staphyleæ** Cooke in Grevillea XIV, pag. 2. — Stro- 5660
matibus sparsis, 2-3-loculatis, epidermide vix elevata tectis, poro minuto pertusis; sporulis linearibus, curvatis, obtusis, allantoideis, hyalinis, 6 ≃ 1.

Hab. in ramis Staphyleæ pinnatæ et S. trifoliæ, Kew Britanniæ.

16. **Cytospora Corni** West. Lambotte Fl. Belg. II, p. 372. — Stro- 5661
matibus parvis, brunneis, 3-5-locularibus, nigris, epidermide brunnea tectis; loculis ovoideis, compressis; ostiolis concoloribus, prominulis; cirro sporularum luteo-albo; sporulis minutis, cylindraceis, rectis vel leniter curvis.

Hab. in ramis Corni sanguineæ in Belgio.

17. **Cytospora albiceps** Ell. et Kellerm. Journ. Myc. 1889, p. 142. — 5662
Stromatibus semiemergentibus, gregariis, 0,5-0,7 mm. lat., depresso-conicis, poro singulo apice obtuso perviis, disco albo-furfuraceo, 5-6-locularibus, loculis initio indistinctis albidis; sporulis allantoideis, 4-7,5 ≃ 2,2-2.

Hab. in cortice Juglandis nigræ, Manhattan Kans. Amer. bor. — Affinis *C. leucophthalmæ* in qua sporulæ minores, 3-4 ≃ 1.

18. **Cytospora antarctica** Speg. F. Fueg. n. 397. — Stromatibus mi- 5663
nutis, elliptico-scutatis, peridermio tectis, 1-3 mm. diam., atris, centro papillatis ac perforanti-exsertulis; loculis ovatis, 300-400 μ. diam., radiatim dense constipatis; ostiolis conniventibus, atris, subcarbonaceis; sporulis allantoideis, plus minusve curvulis, utrinque acutiusculis, 3-4 ≃ 0,7-1 ac minute 1-guttulatis, chlorinulis.

Hab. ad ramulos Fagi betuloidis prope Agaia et in Burnt island Fuegiæ.

19. **Cytospora Salicis-babylonicæ** Schulz. Bot. Centr. 1883 XV, p. 3. 5664
— Stromatibus nigris, plerumque irregulariter multilocularibus, rarius simplicibus; sporulis cylindraceis, sæpe curvulis, hyalinis, 3-4 ≃ 1.

Hab. in ramulis emortuis adhuc pendulis Salicis babylonicæ in Slavonia, sociâ *Calosphæriâ Salicis-babylonicæ* (Syll. IX, p. 448).

20. **Cytospora capitata** Fuck., in die zweite deutsch. Nordpolarf. 34, 5665
f. 8. — Stromatibus sub corticis epidermide nidulantibus, multilocularibus, locellis radiatim dispositis, gelatinosis, olivaceis; disco perfecte globoso, 1 mm. diam., puberulo, olivaceo, poro centrali,

punctiformi, sporulis cylindraceis, curvatis, continuis, hyalinis, 8 ≃ 4.

Hab. in ramulis aridis Salicis arcticæ in Groenlandia.

21. **Cytospora Harioti** Briard Rev. myc. 1889, pag. 16. — Stromate conico, cortice fisso profunde immerso et cincto, subovato, pluriloculari, olivaceo-nigricante; sporulis botuliformibus, vibrantibus, copiosissimis, curvis v. subrectis, hyalinis, 5-6 ≃ 1,5-2. 5666

Hab. in cortice Populi, Aube Galliæ (P. Hariot).

22. **Cytospora betulicola** Fautr. Rev. Myc. 1891, p. 133. — Transverse erumpens; loculis ovoideis, 8 circa ostiolum nigrum circinantibus, applanatis, truncatis, nigris; sporulis curvulis, 5 ≃ 1; basidiis ramosissimis, ramulis bitrifidis, subulatis. 5667

Hab. in fragmentis Betulæ albæ, Noidan Galliæ.

23 **Cytospora Therryana** Thüm. M. U. n. 1979. — Peritheciis gregariis, verrucæformibus, submagnis, primo tectis demum elevatis perforatisve et cirros gelatinosos aureos perpellentibus; sporulis numerosissimis, plerumque rectis, raro subcurvis, continuis, utrinque rotundato-obtusis, cylindricis, hyalinis, 5 mm. long., 1,5 mm. crassis. 5668

Hab. in cortice antiquo Platani orientalis, Lyon Galliæ (Therry). — A *C. Platani* cirrorum colore, sporularum forma et magnitudine diversa.

24. **Cytospora quercella** Brun. Esp. Sphærops. p. 1. — Stromate pluriloculari exiguo, disco erumpente circulari, griseo-brunneo, nigro-brunneo marginato, poro centrali pertuso; sporulis oblongis, rectis, 5-6 ≃ 1-1,5. 5669

Hab. in ramulis emortuis Quercus pedunculatæ, Pessines Galliæ.

25. **Cytospora Quercus-Ilicis** Pass. Fung. Gall. nov. in Jour. d'Hist. nat. 1885, n. 4, p. 55. — Stromatibus epiphyllis, sparsis vel gregariis, conicis, nitidis, nucleo albo; sporulis cylindricis, hyalinis, 7-7½-2½. 5670

Hab. in foliis deciduis Quercus Ilicis prope Sanjou (Charente Inferieure) in Gallia (Brunaud).

26. **Cytospora Sphærula** Duby Bot. Gall. II, p. 725, Syll. III, p. 277. — Stromate erumpente prominulo, sphæroideo, atro, loculis numerosis, atris, orbicularibus ovatisve regulariter circinantibus, disco minuto subconcolore, ostiolis minutis. 5671

Hab. ad ramos emortuos Quercus in Vogesis (Mougeot). — Stroma epidermide lacerata cinctum; loculi nucleo griseo farcti.

27. **Cytospora taxifolia** Cooke et Mass. Grev. XVIII, pag. 73. — Stromatibus sparsis, globoso-conicis, levibus, nigris, erumpentibus, intus 3-4-loculatis, sphæriæformibus, ostiolo conico; basidiis minutis; sporulis allantoideis, minutis, hyalinis, 3 ≃ 1. 5672

Hab. in foliis Taxi, New Carlisle Britanniæ.

28. **Cytospora Mayteni** Speg. F. Fueg. n. 400. — Stromatibus cortice innatis, tuberculoso-subeffusis, primo peridermio tectis, dein latiuscule erumpentibus, non v. vix exsertis, atris, coriacellis; contextu indistincto; loculis inordinatis, minutis, sæpius e mutua pressione difformibus, 90-120 μ. diam., albo-farctis; sporulis allantoideis, utrinque obtusiusculis, 6 ≃ 1, hyalinis. 5673

Hab. ad ramulos emortuos dejectos Mayteni magellanicæ prope Shammacus Fuegiæ.

29. **Cytospora? durissima** Speg. F. Fueg. n. 398. — Stromatibus hinc inde per peridermium erumpentibus, tuberculoso-difformibus, minutis, 0,5-1 mm. diam., atro-olivaceis, corneis, durissimis, glabris, levibus, subrugulosis, contextu carnosulo indistincto olivaceo, loculis periphericis, subglobosis, 80-100 μ. diam., immersis, albo-farctis; sporulis cylindraceis, utrinque plus minusve obtusatis, 3,5 ≃ 1, hyalinis; basidiis filiformibus, 10-20 ≃ 1. 5674

Hab. ad ramos emortuos Embotryi coccinei in Aicina insula Fuegiæ. — Species vulgatissima, rarissime tamen fertilis, fabrica nonnihil lichenina; gonidia verò non visa.

30. **Cytospora Asperulæ** Delacr. Bull. Soc. Myc. 1890, pag. 140. — Peritheciis hypophyllis, non vel vix maculicolis; sporulis hyalinis ovato-cylindraceis, 1,5 ≃ 1; basidiis 15-18 ≃ 0,7. 5675

Hab. in foliis vivis Asperulæ odoratæ, Saint-Dié, Vosges Galliæ.

31. **Cytospora pleurocolla** Pat. Bull. Soc. Myc. 1888, pag. 122. — Stromate punctiformi, 1 mm. diam., nigro, conico-truncato, vertice mamillato, innato-erumpente intus 2-3-locellato, nigro, ostiolo fusco-rufescente, cylindraceo, 1 mm. long., e basi stromatis oriundo, curvulo; sporulis curvulis, 6 ≃ 1, hyalinis, coacervatis brunneolis. 5676

Hab. in fragmentis ligneis, Caracas Venezuelæ.

32. **Cytospora Verrucula** Sacc. et Berl. Misc. Myc. II, p. 8. — Stromatibus mox erumpentibus et subsuperficialibus, globulosis, subinde depressis, atris, ostiolis minutis punctatis; peritheciis paucis, globoso-conicis stromate omnino immersis; sporulis allantoideis, hyalinis, 6 ≃ 1-5; basidiis dichotome v. verticillato-ramosis, longis. 5677

Hab. in ramis corticatis, Logan Australiæ (SCORTECHINI). — *Cytosporæ tumidæ* et *Cyt. epixylæ* affinis.

33. **Cytospora? Balansæ** Speg. F. Guar. II, n. 164. — Stromatibus 5678
minutis 0,5-1 mm. diam., verrucæ- v. subvalsæ-formibus carbonaceis, atris, ligno immersis, ostiolo tuberculoso crasso epidermidem perforante atque breviter exserto; peritheciis in quoque stromate paucis (2-3), parvulis 100–150 μ. diam. sæpe confluentibus; sporulis botuliformibus, utrinque obtusis 5-6 ≃ 1 atque 1-guttulatis, chlorinulis.

Hab. ad ramulos dejectos putrescentes plantæ cujusdam in silvis prope Guarapi Brasiliæ.

34. **Cytospora vinosa** Delacroix Bull. Soc. Myc. France 1890, p. 181. 5679
— Stromatibus olivaceo-nigris, sub epidermide lacerata nidulantibus, paucilocellatis, in macula roseo-vinosa insidentibus; sporulis ovato-cylindraceis, rectis, bi-nucleatis, hyalinis, 7 ≃ 2; basidiis angustissimis, acutatis, fasciculatis, 25 ≃ 1.

Hab. in foliis exsiccatis Yuccæ, Saône et Loire Galliæ. — *C. foliicolæ* satis affinis.

35. **Cytospora Smilacis** Cooke in Grevillea XIV, p. 14. — Stroma- 5680
tibus pustulatis, gregariis, convexis, innato-erumpentibus, paucilocularibus; sporulis minutissimis, cylindricis, vix curvulis, hyalinis; basidiis duplo longioribus, 4 ≃ 2.

Hab. in radicibus expositis Smilacis, Darien Georgia Amer. bor. (RAVENEL).

36. **Cytospora Palmarum** Cooke in Grevillea XIII, pag. 95. — Stro- 5681
matibus innato-erumpentibus, primo tectis, dein epidermidem perforantibus, ½-1 mm. diam.; loculis parcis; sporulis allantoideis, 6 ≃ 1, hyalinis, profusis.

Hab. in petiolis Palmarum etc., Kew Britanniæ.

37. **Cytospora Draconis** Sacc. et Berl. in Rev. Myc. 1886. — Stro- 5682
matibus erumpentibus, intus dedaleæformibus, atris; sporulis subcylindraceis, 10 ≃ 2-2½, hyalinis, basidiis bacillaribus, simplicibus 30-40 ≃ 1½, suffultis.

Hab. in fructibus Dracænæ Draconis in Algeria.

38. **Cytospora Bambusæ** Pat. Bull. Soc. Myc. 1888, pag. 122. — 5683
Stromate orbiculari, 1-2 mm. diam., subepidermico, dein erumpente laciniisque stellatis epidermidis cincto, nigro, intus pallido; peritheciis immersis; sporulis cylindraceis, curvulis, 7 ≃ 1,5, copiosis.

Hab. in culmis Bambusæ putridis, Caracas Venezuelæ.

CEUTHOSPORA Grev. — Syll. III, p. 277.

1, **Ceuthospora fuegiana** Speg. F. Fueg. n. 401. — Stromatibus in- 5684
natis densiuscule sparsis epi- v. hypophyllis impressulis irregulariter suborbicularibus 1-3 mm. diam. determinatis, subcarbonaceis, atris, glabris, levibus tenuiusculis, loculis centralibus paucis (rarius 1) depressis, anguloso-difformibus 150–250 μ. diam. albo-farctis; sporulis cylindraceis utrinque obtusis 12–15 ≃ 2-2,5 rectis, hyalinis non vel granuloso-farctis.

Hab. ad folia dejecta putrescentia Mayteni magellanicæ in silvulis prope Shammacus Fuegiæ.

2. **Ceuthospora australis** Sacc. F. Rom. n. 48, f. 9. — Stromatibus am- 5685
phigenis, innato-prominulis, conico-truncatis, atris, 0,3 mm. diam., disco albo furfuraceo; peritheciis globulosis circinantibus, 4-7 in colla cylindracea brevia sursum attenuatis; sporulis anguste cylindraceis, 2-guttatis, 11-13 ≃ 2, rectis, hyalinis; basidiis multo brevioribus tereti-conicis.

Hab. in foliis emortuis Cneori tricocci in horto botanico, Roma.

3. **Ceuthospora Phyllosticta** C. Mass. Contr. Mic. Ver. p. 87. — Stro- 5686
matibus v. pseudoperitheciis 160-200 μ. diam. amphigenis, subgloboso-verruciformibus, nigris, intus sepimentis magis minusve completis, locellatis (rarissime subunilocularibus?), in maculis exaridis plerumque elliptico-oblongis, linea fusca subincrassata limitatis, et zona subatrosanguinea areolatis, laxe disseminatis; sporulis numerosissimis hyalinis, breviter bacillaribus, rectis utrinque obtusis 3-5 ≃ 1,5–1,8; basidiis 16 μ. circiter longis.

Hab. in foliis adhuc vivis Punicæ Granati prope ecclesiam vici Mezzane di Sopra agri veronensis.

4. **Ceuthospora magellanica** Speg. F. Fueg. n. 402. — Stromatibus 5687
sparsis innatis prominulis sæpius epiphyllis, irregulariter suborbicularibus, 0,5–1 mm. diam. densiuscule sparsis, determinatis, subcarbonaceis, atris, subnitentibus, centro loculo unico (rarius 2-3) lenticulari 230–380 μ. diam. albo-farcto irregulariter (an laciniatim?) dehiscente donatis; sporulis cylindraceis utrinque obtusis 10–14 ≃ 2,5 rectis, hyalinis.

Hab. ad folia dejecta putrescentia Berberidis buxifoliæ in dumosis prope Ushuvaia Fuegiæ.

5. **Ceuthospora abietina** Delacroix Bull. Soc. Myc. 1890, pag. 183, 5688
planche XX, f. VIII. — Stromatibus cuboideo-conicis, atro-olivaceis,

ostiolo communi umbilicato, epiphyllis, epidermide lacerata velatis, plerumque trilocularibus, longitudinaliter elongatis, 600 × 220 × 120; sporulis ovoideis, utrinque rotundatis, 6 × 2,5, hyalinis, biguttulatis; basidiis acutis 18-20 × 1.

Hab. in pagina superiore acuum siccarum Abietis excelsæ, Langemer, Vosges Galliæ. — Socia adest *Cytospora Pinastri*, a qua valde differt.

Sect. 2. Phæosporæ Sacc.

SPHÆROPSIS Lév. — Sacc. Syll. III, p. 291.

I. *Eu-Sphæropsis.* Perithecia typice corticicola, subtecta.

I. *In Dicotyledoneis herbaceis.*

1. **Sphæropsis herbarum** Cooke et Mass. Grev. XVI, p. 78. — Peri- 5689
theciis minutis gregariis, nigris, punctiformibus, initio tectis, dein epidermide secedente expositis; sporulis late ellipsoideis, continuis, brunneis, purpureo tinctis, 7-10 × 5-6.

Hab. in caulibus herbaceis Compositarum et Umbelliferarum, Epping Britanniæ.

2. **Sphæropsis Lappæ** E. et E. in Fairm. Contr. Myc. West. N. Y. p 51. 5690
— Peritheciis sparsis, subglobosis, 0,3 mm. diam., epidermide initio tectis, dein erumpenti-superficialibus; sporulis ellipsoideis, brunneis, crasse 1-guttatis, 15-20 × 8-10.

Hab. in caulibus emortuis Lappæ majoris, Western New York Amer. bor.

3. **Sphæropsis Evolvuli** Pat. in Rev. Myc. 1886, p. 182. — Perithe- 5691
ciis epidermide tectis, nigris, globulosis, 200 μ. diam.; sporulis rufo-brunneis, ovoideis, 1-guttulatis, 10 × 8.

Hab. in caulibus exsiccatis Evolvuli, Yunnam Sinarum (Ab. Delavay).

4. **Sphæropsis Lupini** Cooke et Hark. in Grevillea XIII, p. 111. — 5692
Caulicola, sparsa, erumpens; peritheciis globoso-depressis, atris, demum semiemergentibus, pertusis; sporulis globoso ovoideis, utrinque subacuminatis, continuis, demum atro-olivaceis, 15-17 × 8-10.

Hab. in caule Lupini in California (Harkness).

5. **Sphæropsis Rostrupii** Berl. et Vogl. Add. Syll. n. 4662, *Sphæro-* 5693
psis sp. Rostrup Unders. Svamp. Rhizoct. p. 19, tab. I, fig. 1-5. — Peritheciis sparsis, pseudoparenchymaticis, rufo-brunneis; spo-

rulis ovoideis vel sphæroideis, rufescentibus, basi apiculatis, guttulis 1-3 pallidioribus præditis, 6-8 = 4-6.

Hab. in radicibus Trifolii hybridi in Islandia.

6. **Sphæropsis Smyrnii** Pass. Fung. Gall. nov. in Jour. d'Hist. nat. 1885, n. 4, p. 55. — Peritheciis gregariis, sæpe confluentibus, seriatis, compressis, rimose erumpentibus, nigris; sporulis ellipticis vel ovoideis, continuis, fuligineis, 16-20 = 9-12. 5694

Hab. in caulibus emortuis Smyrnii Olusatri prope Font couverte in Gallia (Brunaud).

7. **Sphæropsis sphærospora** Peck 39 Rep. p. 46. — Peritheciis numerosis, minutis, 150-175 μ. lat., subglobosis v. depressis, primo epidermide tectis, nigris, ostiolo minuto pertusis; sporulis globosis v. subovoideis, subcoloratis, 10-12,5 μ. long., plerumque ample 1-guttatis. 5695

Hab. in caule emortuo Asclepiadis Cornuti, Sandlake Americæ borealis.

8. **Sphæropsis Euphorbiæ** Passer. Diagn. F. N. IV, n. 105. — Peritheciis sparsis vel subgregariis in ligno denudato superficialibus, atris subglobosis papillatis vel brevissime rostellatis; sporulis ovalibus apicibus subacutis vel subrotundatis, integris, flavo-fuscidulis, 12-15 = 7-7,5, sterigmatibus crassiusculis longitudine varia fultis. 5696

Hab. in caulibus siccis Euphorbiæ in horto botanico, Parma Ital. bor.

II. *In Dicotyledoneis lignosis.*

9. **Sphæropsis zonata** Passer. Diagn. F. N. IV, n. 106. — Peritheciis subcutaneis erumpentibus sparsis carbonaceis, subglobosis vix ostiolatis, rugosis, tandem deciduis, nucleo albo-zonato; sporulis magnitudine variis, ellipticis aut ovatis, integris castaneo-fuscis, ut plurimum 20-22 = 10-12. 5697

Hab. in ramis siccis Loniceræ Xylostei, Vigheffio prope Parma.

10. **Sphæropsis Jasmini** Pat. in Rev. Myc. 1886, pag. 182. — Peritheciis punctiformibus, nigris, epidermide tectis; sporulis ovoideis rotundatis, brunneis, bi-trinucleatis, 6-7 = 6. 5698

Hab. in ramulis emortuis Jasmini, Yunnam Sinarum (Ab. Delavay).

11. **Sphæropsis Helicis** Cooke et Mass. Grev. XVI, p. 8. — Peritheciis majusculis, nigris, semiimmersis, carbonaceis, ostiolo longo 5699

exserto; sporulis ovoideis, continuis, 12 × 8, initio breve stipitatis, demum opace nigricantibus.

Hab. in ramis Hederæ Helicis, Kew London Britanniæ. — Perithecia stromati nigro (*Diaporthes pullæ*) plerumque innata. — «An *Næmosphæræ* species?».

12. **Sphæropsis Staphyleæ** Brun. Champ. Saint. VII, p. 5. — Peri- 5700
theciis sparsis, minutis, globosis, tectis, intus albo-corneis; sporulis ovoideis v. oblongis, fuligineis, continuis, 20-30 × 9-11.

Hab. in ramis emortuis Staphyleæ pinnatæ, Pessines pr. Saintes Galliæ. — Status forte imperfectus *Diplodiæ Staphyleæ.*

13. **Sphæropsis Lauri** Pass. et Brun. Mat. myc. Saint. p. 23. — Pe- 5701
ritheciis tectis, seriatim dispositis, nigris, parvis, globoso-compressis; sporulis ellipsoideis v. obovatis, continuis, brunneis, 18 × 10.

Hab. in ramis emortuis Lauri nobilis, Saintes Galliæ. — *Sph. seriatæ* valde affinis.

14. **Sphæropsis Linderæ** Peck 39 Rep. p. 45. — Peritheciis nume- 5702
rosis, minutis, 125–250 μ. lat., erumpentibus, nigris, intus albis; sporulis ovoideis v. ellipsoideis, primo pallidis, dein coloratis, 20–27,5 × 12,5-15; basidiis sporulis brevioribus.

Hab. in ramis Linderæ Benzoin, Albany Amer. bor. — *Sph. tiliaceæ* valde affinis.

15. **Sphæropsis minuta** Bel. et F. Sacc. Contr. Myc. Lus. p. 7. — 5703
Peritheciis minutis, epiphyllis, 150-200 μ. diam. pertusis, in maculis expallenti-ochraceis, subsparsis, contextu laxe parenchymatico, ochraceo; sporulis ovoideo-oblongis, utrinque rotundatis, 18–22 × 8–9, ochraceo-lutescentibus, 1-2-guttatis v. protoplasmate ad medium partito.

Hab. in foliis Aceris Pseudoplatani in Lusitania.

16. **Sphæropsis tiliacea** Peck 39 Rep. p. 45. — Peritheciis primo 5704
tectis, dein erumpentibus, subglobosis v. depressis, numerosis, minutis, 175–250 μ. lat., poro minuto pertusis, nigris; sporulis oblongis v. subellipsoideis, primo pallidis, dein coloratis, 17,5-22,5 × 12,5–15; basidiis sporulâ vix longioribus.

Hab. in cortice emortuo Tiliæ americanæ, Albany Amer. borealis.

17. **Sphæropsis pallida** Peck 39 Rep. pag. 46. — Peritheciis cæspito- 5705
sis, erumpentibus, 275-325 μ. lat., nigris; sporulis subglobosis, subcoloratis, 17,5-20 × 16–18,5, basidiis brevissimis fultis, 1–3-guttatis.

Hab. in ramis emortuis Rhois typhinæ, Saugerties Amer.

bor. — Differt a *Sph. Sumachi* peritheciis minoribus, sporulis subglobosis et pallidioribus.

18. **Sphæropsis? enormis** Sacc., *S. abnormis* Berk. et Thuem. M. U. n. 1675, Diagn. p. 16. — Peritheciis sparsis v. sæpius regulariter concentrice dispositis, amphigenis, elevatis, cephaloideis, aterrimis, magnis, durissimis; sporulis ovoideis v. subglobosis v. ellipsoideis, simplicibus, utrinque rotundatis, hyalinis vel dilute cinereis, 8-10 ≈ 4-6. 5706

Hab. in foliis vivis Capparidis Gueinzii ad promont. Bonæ Spei (Prof. P. Mac. Owan). — Nomen leviter mutavi ob homonymam speciem. Cfr. Syll. III, p. 301.

19. **Sphæropsis Visci** (Sollm.) Sacc. Mich. II, p. 105, *Ceuthospora* Sollm. in Hedw. II, n. 19, t. XIII. — Peritheciis laxe gregariis, subcutaneis, prominulis, globosis, nigris, vertice obtuse conoideis, nucleo initio albo; sporulis obovatis vel oblongis, 45-55 ≈ 18-26, continuis, olivaceo-fuligineis, granuloso-nucleatis, basidiis brevibus suffultis et pseudo-paraphysibus (an basidiis perfectioribus) bacillaribus, multo longioribus, hyalinis obvallatis. 5707

Hab. in foliis ramulisque Visci albi in Vogesis, Belgio, Helvetia, Tirolia. — « Ad basin peritheciorum adsunt hyphæ brunneæ ramulosæ septatæ, conidia ellipsoidea, continua fuliginea, 9-10 ≈ 5 gerentia » Stat. macrostylosp. *Gibberideæ Visci.*

20. **Sphæropsis endophlœa** Passer. Diagn. F. N. IV, n. 102. — Peritheciis sparsis basi insculptis minutis prominulis, subglobosis, atris; sporulis ellipticis vel ovatis integris, olivaceo-fuscis, 18-20 ≈ 10-12. 5708

Hab. in cortice interiore relaxato Piri Mali, Collecchio prov. Parma.

21. **Sphæropsis lichenoides** Sacc. in Rev. Myc. 1885, p. 222. — Peritheciis gregariis, epidermide dealbata tectis, dein erumpentibus, globulosis, obtuse papillatis, 1/3 mm. diam., atris; sporulis ellipsoideis, olivaceis, 14-18 ≈ 7-8, initio stipitatis. 5709

Hab. in ramis exsiccatis Piri japonicæ cultæ, Toulouse Galliæ (Angela Roumeguère).

22. **Sphæropsis cydoniæcola** Passer. Diagn. F. N. IV, n. 107. — Peritheciis creberrime sparsis vel subgregariis, sæpius in series lineares digestis, tectis, pustulæformibus, vix epidermidem findentibus; sporulis forma variis ellipticis, ovatis vel subglobosis, subinde irregularibus, castaneo-fuscis, integris, 15-25 ≈ 7,5-12,5; basidiis non visis. 5710

Hab. in ramis siccis Cydoniæ vulgaris, Parma.

23. **Sphæropsis demersa** (Bon.) Sacc. Syll. III, p. 293. — Sec. Celotti Mic. Montpell. p. 19, species nascitur quoque in ramis corticatis Cratægi Oxyacanthæ, C. Ariæ et Cerasi virginianæ, Montpellier, et præbet sporulas 20-25 ≃ 10-12.

24. **Sphæropsis phomatoidea** Cooke et Mass. Grev. XVIII, p. 49. — 5711
Maculis hypophyllis irregularibus brunneis a larva quadam productis; peritheciis sparsis, convexis, initio tectis, nigris, poro pertusis; sporulis ellipsoideis, utrinque rotundatis, nucleatis, melleo-brunneis, 8 ≃ 4-5; basidiis brevibus, curvis.

Hab. in foliis Eucalypti, Victoria Australiæ (Martin).

25. **Sphæropsis Cercidis** Brun. Champ. Saint. p. 338. — Peritheciis 5712
penitus cortice immersis, primo tectis, dein vix erumpentibus conico-truncatis, pertusis, nigris, intus griseolis; sporulis oblongis, dilute olivaceis, continuis, 2-guttatis vel granulosis, 17-18 ≃ 7,

Hab. in ramis emortuis Cercidis Siliquastri, Saintes Galliæ.

26. **Sphæropsis viticola** Passer. Diagn. F. N. IV, p. 10. — Perithe- 5713
ciis globosis, atris, lineatim digestis vel subgregariis vel etiam solitariis, ostiolo papillari; sporulis ellipticis, ovatis vel subglobosis, fuligineis, interdum biguttulatis, sed semper integris, regularibus, 12,5-20 ≃ 7,5-10.

Hab. in sarmentis dejectis Vitis viniferæ, Parma Ital. bor. — A *Sph. fabæformi* sporulis regularibus angustioribus diversa.

27. **Sphæropsis oblongispora** Mass. Contr. Mic. Veron. pag. 141, — 5714
Peritheciis globulosis, 140 ≃ 180, densissime disseminatis, substratosis, hemisphærico-prominulis, epidermide velatis dein erumpentibus, poro perviis, contextu carbonaceis; sporulis oblongo-ellipticis vel subfusiformibus, dilute fuligineis, pellucidis, 18-28 ≃ 5-8.

Hab. in sarmentis siccis Vitis viniferæ, Tregnago in agro veronensi Ital. bor.

28. **Sphæropsis ribicola** C. et Ell. Grev. V, pag. 55, t. 80, f. 7. — 5715
Peritheciis gregariis, epidermide tectis, elevatis; sporulis ellipsoideis, brunneis, 22 ≃ 9.

Hab. in ramis Ribis, New Jersey Amer. bor.

29. **Sphæropsis Rhamni** Cooke Grev. V, p. 55, t. 80, f. 6. — Peri- 5716
theciis gregariis, primum epidermide tectis, demum ea transverse fissâ erumpentibus; sporulis arcte ellipticis, brunneis, 25 ≃ 7,5.

Hab. in cortice Rhamni, New Jersey Amer. bor. (Doct. Curtis). — *Sph. ribicolæ* affinis sed sporulis angustioribus.

30. **Sphæropsis quercina** Cooke et Harkn. in Grevillea XIII, p. 111. 5717

— Peritheciis sparsis, subcutaneis, globoso-depressis, vix prominulis; sporulis subellipticis, continuis, utrinque rotundatis, demum olivaceo-fuligineis, 20-24 × 12.

Hab. in ramis vivis Quercus in California (HARKNESS).

31. **Sphæropsis alnicola** Peck in 38 Rep. St. Mus. p. 95. — Peritheciis numerosis, 350-500 μ. diam., prominulis, hemisphæricis, erumpentibus, sæpe confluentibus, in maculis nigris; sporulis oblongis, 15-22 × 8-10. 5718

Hab. in ramulis emortuis Alni, West Albany Amer. bor.

32. **Sphæropsis salicicola** Passer. Diagn. F. N. IV, n. 103. — Peritheciis sparsis vel gregariis globoso-conoideis erumpentibus, epidermide cinctis, atris, scabridis, ostiolo obtuso, fibrillis dematiaceis raris brevissimis consperso; sporulis ellipticis vel inæquilateralibus, raro subglobosis, basidiis hyalinis fultis, continuis, castaneo-fuscis, 15-22,5 × 10. 5719

Hab. in ramo sicco Salicis, Parma Ital. bor.

33. **Sphæropsis Betulæ** Cooke in Grevillea XIV, p. 4. — Subgregaria, interdum sparsa, cuticula elevata tecta; peritheciis depresse globosis, vix papillatis; sporulis ellipticis, utrinque rotundatis, continuis, luteolis, 30-32 × 9. 5720

Hab. in ramulis Betulæ albæ, Kew Britanniæ.

34. **Sphæropsis Mori** Berl. Fungi Mor. fasc. I, tab. 9, fig. 1-6, *Diplodia Mori* Plur. Auct. — Peritheciis sparsis vel leniter gregariis, basi cortice insculptis, epidermide elevata dein fissa cinctis, atris, globosis, sæpe collapsis, in ostiolum breve, conicum productis, $^1/_3$-$^1/_2$ mm. diam.; sporulis oblongo-ovatis, sæpe basi attenuatis quandoque plasmatis bipartiti causa, loculo medio valde irregulari præditis, 15-18 × 10-2, saturate olivaceis; basidiis hyalinis, brevibus, crassiusculis, suffultis. 5721

Hab. in ramis corticatis Mori albæ in toto agro veneto Ital. bor., socia *Diplodiâ Mori*.

35. **Sphæropsis heterospora** Passer. Diagn. F. N. IV, n. 104. — Crebre sparsa vel subgregaria, tecta, pustulæformis; peritheciis subglobosis atris; sporulis fuligineis, globosis, 10-12,5 μ. diam. vel ovatis, 15-17,5 × 10; basidiis non visis. 5722

Hab. in ramulis siccis Mori albæ, Parma.

36. **Sphæropsis ulmicola** E. et Ev. Proc. Acad. Phil. 1891, p. 79. — Peritheciis sparsis, minutis, 0,2-0,3 mm. diam., intus albis, epidermide pustulatim inflata sed vulgo non rupta tectis; sporulis elli- 5723

psoideis v. obovatis, 20-30 ≃ 12-15, flavo-brunneis; basidiis sporula brevioribus, obtusis.

Hab. in ramis emortuis Ulmi, London Canada (Dearness). — A *S. Ulmi* sporulis multo minoribus dignoscitur.

37. **Sphæropsis Ulmi** Karst. Symb. Fenn. XXVIII, p. 42. — Peritheciis 5724
gregariis superficialibus, globulosis vel ovoideo-truncatis, basi applanatis, carbonaceis, fragilibus, subastomis, atris, 0,3 mm. diam.; sporulis ellipsoideo-oblongatis, hyalino-olivaceis, eguttulatis, 10 ≃ 4.

Hab. ad ramulos dejectos, cortice orbatos Ulmi in horto mustialensi Fenniæ.

38. **Sphæropsis gallæ** (Schw.) Sacc. Syll. III, p. 300. — Sec. Celotti Mic. Montpell. p. 20, species nascitur quoque in ramis Juglandis porcinæ, Montpellier et præbet sporulas 19-20 ≃ 10-12.

39. **Sphæropsis acicola** Passer. Diagn. F. N. IV, p. 10. — Perithe- 5725
ciis superficialibus, sparsis vel subgregariis, parvulis, globosis, carbonaceis, ostiolo pertuso; sporulis ovalibus fuscis margine tenui hyalino, 12,5-15 ≃ 7,5-10; basidiis bacillaribus longis hyalinis.

Hab. in foliis putridis Pini austriacæ, in horto botanico Parma Ital. bor.

40. **Sphæropsis Ellisii** Sacc. Syll. III, p. 300 — var. **Laricis** Peck 5726
44 Rep. p. 23. — Peritheciis majoribus, 350 μ. diam., sæpe seriatis epidermideque albida, rupta cinctis; sporulis ovatis 30-45 ≃ 15-20.

Hab. in ramis corticatis Laricis americanæ, Kasoag Oswego county Amer. bor.

41. **Sphæropsis Juniperi** Peck 39 Rep. pag. 45. — Peritheciis grega- 5727
riis, numerosis, minutis, 200-275 μ. lat., erumpentibus, nigris; sporulis oblongis v. ellipsoideis, 20-23,5 ≃ 11,5-13,5.

Hab. in cortice emortuo Juniperi virginianæ, Albany occid. Amer. bor.

42. **Sphæropsis maculans** Peck 39 Rep. pag. 46. — Peritheciis im- 5728
mersis, 400-500 μ. lat., nigris; ostiolo papillato; sporulis ellipsoideis, coloratis, 10-12,5 ≃ 5-6,5.

Hab. in ramis emortuis et decorticatis in montibus Adirondack Amer. bor.

43. **Sphæropsis lecythea** (Schw.) Cooke Grev. *Sphæria* Schw., Syll. 5729
II, p. 410. — Sporulæ continuæ, pallide brunneæ, 30 ≃ 10-12. — Etiam *Sphæria junipericola* Schw., Syll. II, p. 390, teste Cooke Grev., est *Sphæropsis*.

III. *In Monocotyledoneis.*

44. **Sphæropsis Smilacis** Ell. et Ev. Journ. Myc. 1889, p. 149. — Peritheciis sparsis, cortice immersis, epidermidem rumpentibus sed pro parte tantum erumpentibus; sporulis oblongis, brunneis, obtusis 15-20 ≃ 6-8. 5730

Hab. in caulibus emortuis Smilacis hispidæ, Lincoln, Nebr. Amer. bor. (H. J. Webber).

45. **Sphæropsis subdola** Passer. Diagn. F. N. IV, p. 10. — Peritheciis solitaris? sparsis, erumpentibus, atris, contextu carbonaceo; sporulis ellipticis, primo hyalinis, deinde flavis, tandem castaneis, semper integris, 15-18 ≃ 8-10. 5731

Hab. in caulibus siccis Geitonoplesii angustifolii, Panisperma, Roma.

46. **Sphæropsis typhina** Peck 32 Rep. p. 38. — Peritheciis sparsis, subconicis, leviter prominulis, sæpe compressis, nigris; sporulis fusoideis, utrinque acutatis, coloratis, 15 ≃ 4. 5732

Hab. in foliis Typhæ latifoliæ, Sprakers Amer. bor.

47. **Sphæropsis caricina** Pass. in Journ. hist. Nat. Bord. 1885, p. 136, Brunaud Liste Sphærops. p. 28. — Peritheciis sparsis, minutis, globulosis, nigris, tectis, ostiolo epidermidem perforante donatis; sporulis ellipsoideis vel ovoideis, fuligineis, continuis (an semper?), 18–22 ≃ 10–12,5; basidiis brevibus, subæqualibus, hyalinis. 5733

Hab. in foliis emortuis Caricis ripariæ, Saintes Galliæ.

48. **Sphæropsis Tritici** Cooke et Mass. Grev. XVI, p. 75. — Peritheciis minutissimis, dense gregariis, primo tectis, punctiformibus, atris; sporulis ellipticis, continuis, læte fuscis, 12 ≃ 7–9. 5734

Hab. in foliis vaginisque emortuis Tritici, Melbourne Australiæ (F. Reader).

49. **Sphæropsis Passerinii** Brun. Champ. Saint. V, pag. 5. — Peritheciis erumpentibus, subglobosis vel oblongis, carbonaceis, duriusculis; sporulis ellipsoideis vel subovoideis, primo hyalinis, dein castaneo-brunneis, 20–25 ≃ 10-12,5; sporulis subglobosis v. ovoideis multo minoribus intermixtis; basidiis bacillaribus, hyalinis. 5735

Hab. in culmis emortuis Bambusæ arundinaceæ, Saintes Galliæ.

50. **Sphæropsis lugubris** Bomm. Rouss. Sacc. Contr. Myc. Belg. IV, p. 81. — Peritheciis subglobosis, carbonaceis, epidermide atrata tectis, 240-300 μ. diam., plus minus aggregatis, poro dehiscenti- 5736

bus; sporulis elliptico-fusoideis, planis, fuligineis, subinde 2-guttatis, 18-21 ≃ 9-10.

Hab. in culmis foliisque Ammophilæ arenariæ, Ostende Belgii, socio statu ascoph. *Anthostomella lugubri.*

2. *Sphæromma* Sacc. Perithecia subsuperficialia, xylogena.

51. **Sphæropsis tabacina** Berl. Fungi moricolæ fasc. I, t. 9, f. 12-15. 5737
— Peritheciis superficialibus, sparsis vel leniter gregariis, crusta stromatica atra insidentibus, globosis, atris, lucidis, in ostiolum cylindraceum vel cylindraceo-conicum, subinde longiusculum desinentibus $^1/_5$-$^1/_3$ mm. diam.; sporulis ovoideis, episporio crassiusculo, guttulatis, continuis, læte cinnamomeis; basidiis nullis vel obsoletis.

Hab. in ligno putri Mori albæ, Fiumicello Ital. bor. — Ligno valde nigrefacto, peritheciis acute papillatis sporulisque ochraceo-lutescentibus statim distinguenda.

52. **Sphæropsis Xylostei** Passer. Diagn. F. N. IV, p. 10. — Perithe 5738
ciis insculptis, sparsis vel subgregariis, sphæriæformibus, rugulosis, atris, ostiolo papillari, nitidulo, pertuso; sporulis ellipticis, integris, fuligineis, 15 ≃ 7,5.

Hab. in ligno fracido denudato Loniceræ Xylostei, Vigheffio pr. Parma

53. **Sphæropsis lignicola** Cooke et Mass. Grev. XVI, p. 8. — Peri- 5739
theciis gregariis, sæpius juxta ligni fibras seriatis, subinde confluentibus, opace atris, subglobosis, lateraliter compressis et distortis, subsuperficialibus, minute pertusis; sporulis subglobosis v. ovoideis continuis, brunneis, 15 ≃ 10.

Hab. in ramis decorticatis, Kew London Britanniæ.

NÆMOSPHÆRA Sacc. Syll. III, p. 198 (ut subgen.) Karst. Sphærops. Fenn. p. 68 (Etym. e metathesi vocis *Sphæroncæma*). — Perithecia discreta, tecta vel subsuperficialia, atra, membranaceo-carbonacea, ostiolo rostrato. Sporulæ continuæ, ovato-oblongæ, coloratæ. — Est *Sphæropsis* vel *Coniothyrium* rostrata. — Ad hoc genus quoque spectant *Næm. Magnoliæ* (Peck) Sacc. et *N. ossis* (Pr.) Sacc. Cfr. Syll. III, p. 198.

1. **Næmosphæra subtilissima** Karst. Sphær. Fenn. p. 68. — Perithe- 5740
ciis sparsis vel gregariis, superficialibus, late conoideis, atris, parenchymatico-contextis, 0,1 mm. diam., rostro cylindraceo, stricto,

atro e filamentis connatis contexto, 0,4 mm. long., 20 μ. cr.; sporulis ellipsoideo-sphæroideis, dilutissime olivaceis, 6-7 ≃ 5-6.

Hab. in ramis emortuis Symphoricarpi racemosæ in horto Mustiala Fenniæ.

2. **Næmosphæra rudis** Karst. Symb. Myc. XXVIII, pag. 43. — Peritheciis gregatim sparsis, superficialibus, ovoideo-conoideis, pallidis, dein brunnescentibus, canovillosulis, 100-140 μ. diam.; ostiolo cylindraceo e pallide brunneo, perithecio subæquilongo vel sublongiore; sporulis ovoideis, late ellipsoideis v. fere sphæroideis, fuligineis, eguttulatis, 12-24 ≃ 7-8 vel 10-12 μ. diam. 5741

Hab. in cortice interiore Aceris platanoidis in horto mustialensi Fenniæ.

3. **Næmosphæra ceratophora** (Speg.) Sacc. *Sphæropsis* Speg. Guar. I, p. 145. — Peritheciis immersis, laxe gregariis vel sparsis, globosis, 150 μ. diam., atris, opacis, coriaceis; ostiolo nigro, elongato exserto, 1-1,5 mm. long., 0,1-0,2 mm. diam., fibroso-prosenchymatico, ex hyphis chlorino-olivaceis composito, apice perforato et fimbriatulo; sporulis ellipticis vel ovoideis, basi subtruncatulis, cinnamomeis, grosse 1-2-guttatis, 12-15 ≃ 7-8, strato mucoso tenui, hyalino involutis; basidiis subampulliformibus v. ovoideo-elongatis, 15-20 ≃ 5, hyalinis. 5742

Hab. ad corticem emortuum ramorum in silvis prope Guarapi Brasiliæ.

4. **Næmosphæra rostellata** (Grove) Sacc. *Coniothyrium rostellatum* Grove in Journ. of Bot. 1886, p. 135. — Peritheciis globosis, rostello brevi cylindrico instructis vel ovoideis, rostro confluente, $^1/_6$-$^1/_5$ mm. alt., superficialibus, atris, rugulosis, sparsis v. subinde semiconnatis, contextu parenchymatico, olivaceo, subpellucido; sporulis numerosis, ovoideis vel subglobosis, olivaceis, 4 ≃ $2^1/_2$-3. 5743

Hab. in interiore squamarum superficie conorum Pini silvestris, Kings Norton prope Birmingham Britanniæ. — A *Conioth. dispersello* rostro manifesto distincta.

5. **Næmosphæra anomala** (March.) Sacc. *Sphæronema* March. Champ. copr. VI, p. 10. — Peritheciis laxe gregariis, in ligno basi leviter insculptis, hemisphæricis, primum subglobosis, superne sæpe depressis, atro-fuscis, contextu parenchymatico densissimo, opaco, subfragili, 179-220 μ. diam.; ostiolo cylindraceo, prosenchymatico, atro-fusco, 460-550 ≃ 12-15, recto vel flexuoso, apice penicillato-fibrilloso, albido, globulum candidum gerente; sporulis ovoideis, rectis, rarissime subarcuatis, polo inferiori leniter attenuato-truncatis, 5744

juvenilibus fuligineo-hyalinis, 2 rarius-1-guttulatis, demum fuscis, subopacis, 11,5-12,5 ≃ 6,5-8, basidiis brevibus, suffultis.

Hab. ad lignum decorticatum fimo cuniculino inquinatum, Bruxelles Belgii.

CONIOTHYRIUM Corda. — Sacc. Syll. III, p. 305.

A. *Eu-Coniothyrium.* Perithecia subtecta.

I. *In Dicotyledoneis herbaceis.*

1. **Coniothyrium Fragariæ** Oud. Versl. en Med. der Kon. Ak. van Wet. 2, XVIII, 37 et Aanw. IX-X, p. 27. — Peritheciis membranaceis, fuligineis, apice irregulariter pertusis; sporulis fuligineis, late ellipticis, 11,6 ≃ 9,3, utrinque vel uno alterove apice acutato, basi sæpeque basidii portiunculâ hyalinâ appendiculatis. 5745

Hab. in receptaculis maturis Fragariæ vescæ, Amsterdam Hollandiæ.

2. **Coniothyrium Arthurianum** Sacc. et Berl. Misc. Myc. II, n. 71. — Peritheciis gregariis, epidermide velatis, globoso-depressis, papillulatis, 1/6 mm. diam., atris; sporulis e globoso ellipsoideis, utrinque rotundatis, 5-6 ≃ 4-5, pallide olivaceis. 5746

Hab. in caulibus herbaceis (Cucurbitæ?) Geneva Amer. bor., socio *Epicocco neglecto* (I. C. Arthur).

3. **Coniothyrium Euphorbiæ** (Roum.) Berl. et Vogl. Add. Syll. n. 4394, *Phyllosticta Euphorbiæ* Roum. in Rev. Myc. 1885, p. 26. — Maculis epiphyllis, orbicularibus, rufo-brunneis, sparsis v. confluentibus, sæpe ad margines foliorum; peritheciis punctiformibus, nigris, 1/10 mm. diam.: sporulis ellipsoideis, 5-6 ≃ 2,5, olivaceis. 5747

Hab. in foliis vivis Euphorbiæ silvaticæ, Fontainebleau Galliæ.

4. **Coniothyrium Hellebori** Cooke et Mass. Grev. XV, p. 108. — Amphigenum; maculis orbicularibus sordide brunneis, 1-1,5 mm. diam., concentrice notatis; peritheciis minutis, plerumque in centro maculæ sitis, diu tectis, papillatis; sporulis ovoideis, pallide brunneis, 4-5 ≃ 2-3. 5748

Hab. in foliis languentibus Hellebori nigri, Kew London Britanniæ.

5. **Coniothyrium Delacroixii** Sacc., *Coniothyrium Hellebori* Delacroix Bull. Soc. Myc. Fr. 1890, p. 183, nec C. et M. — Maculis amplis, amphigenis, sordide fusco-violaceis, ovalibus v. subangulatis; peritheciis immersis, 150-200 μ. diam., subrotundis, basi leviter 5749

applanatis, ostiolo papillato, epidermidem perforante, 35 μ. lato; sporulis ovalibus, primum hyalinis, dein fusco-castaneis, 7 ≃ 3,5; basidiis nullis.

Hab. in pagina superiore foliorum Hellebori viridis, Saint-Emilaud (Saône et Loire) Galliæ.

6. **Coniothyrium vile** Karst. et Har. Rev. Myc. 1890, n. 47. — Peritheciis sparsis, erumpentibus, rotundatis, pertusis, atris, minimis; sporulis ellipsoideis vel oblongatis, dilute fuligineis, 4-6 ≃ 2,5-3,5. 5750

Hab. ad caules aridos Solidaginis glabræ, Méry-sur-Seine (Aube) Galliæ.

7. **Coniothyrium salvicolum** E. et E. Journ. Mycol. 1888, p. 49. — Peritheciis erumpenti-superficialibus, submembranaceis, nigris, ½ mm. diam., dein supra collabentibus; ostiolo papillato; sporulis subglobosis, olivaceis, 3,5-4 μ. diam. 5751

Hab. in caulibus vetustis, dealbatis et decorticatis Salviæ officinalis, Newfield, N. J. Amer. bor.

8. **Coniothyrium septorioides** Cooke et Mass. Grev. XX, pag. 36. — Maculis orbicularibus, fulvescentibus, late purpureo-marginatis, epiphyllis; peritheciis plerumque circinantibus, subinde sparsis, nigris, erumpentibus, globosis, membranaceis; sporulis late ellipsoideis, continuis, pallide brunneis, 5-6 ≃ 3-4. 5752

Hab. in foliis Prostantheræ lasianthæ, Grampians Victoriæ Australiæ (F. Mueller).

9. **Coniothyrium medielium** Karst. Symb. Myc. Fenn. XXIII, p. 10. Peritheciis dense gregariis, superficialibus, basi leviter insculptis, sphæroideo-conoideis, obtusiusculis, ore latiusculo pertusis, atris, 0,4 mm. diam.; sporulis late ellipsoideis, eguttulatis, luteolis, diaphanis, 4-6 ≃ 2-5. 5753

Hab. in caulibus Chenopodii albi emortuis ad Mustiala Fenniæ. — Inter *Coniothyrium Crepinianum* et *C. conoideum* quasi medium.

II. *In Dicotyledoneis lignosis.*

10. **Coniothyrium Montagnei** Cart. in Mont. Ann. Sc. nat. 1849, II, p. 304. — Peritheciis epidermide innatis, erumpentibus, gregariis, ovoideo-globosis, subdepressis, minutissimis, vix 50 μ. diam., atris, vertice tandem ruptis; contextu membranaceo, tenuissimo, ample parenchymatico; sporulis globosis, griseis, tandem olivaceo-umbrinis, episporio crasso, maturis 10 μ. cr. 5754

Hab. in ramulis emortuis Elæagni angustifolii et in cau-

libus pedunculisque Bupleuri fruticosi pr. Montaud-lès-Miramas Galliæ (CASTAGNE).

11. **Coniothyrium Ribis** Brun. Champ. Saint. pag. 338. — Peritheciis 5755
gregariis vel subgregariis, erumpentibus, globosis, nigris; sporulis oblongis, eguttatis, brunneis, 8-10 ≃ 3-3,5.

Hab. in ramis emortuis Ribis floridi, Saintes Galliæ. — Affinis *C. olivaceo.*

12. **Coniothyrium Berberidis** Fautrey in Rev. myc. 1890, p. 124. — 5756
Peritheciis sub epidermide nidulantibus, eximie pertusis, nigris, depressis; sporulis oblongis, fuscis, eguttatis, 8-11 ≃ 2-4.

Hab. in ramulis Berberidis vulgaris, sociâ *Didymosphæria epidermidis* forma *macrospora,* Beaune, Côte-d'Or Galliæ. (F. FAUTREY).

13. **Coniothyrium Berlandieri** Viala et Sauv. in Journ. de Bot. 1891, 5757
p. 364, t. V, f. 11. — Peritheciis sphæricis v. subreniformibus, 135 ≃ 110, apice subprominulo pertusis; contextu minutissime irregulariterque parenchymatico, atro-nigro; sporulis piriformibus, elongatis, basi angustioribus et plano-truncatis, subsaturate brunneis, episporio crassissimo, intus eguttatis, minute granulosis, 16 ≃ 6,3, continuis, rarissime 1-septatis.

Hab. in foliis Vitis Berlandieri, V. cinereæ, V. candicantis Amer. bor. — Socia adest *Coniothryrii* alia sp., peritheciis 46 μ. diam., 62 μ. alt., sporulis ovoideis, dilute brunneo-fuligineis, 1,25 μ. long.

14. **Coniothyrium Vitis** Delacr. Bull. Soc. Myc. 1890, p. 141. — Pe- 5758
ritheciis sparsis, subsuperficialibus, globosis, atris, papillatis, minutis, 60 μ. diam.; sporulis ovalibus, fuscis, eguttulatis, 4,5 ≃ 2,5; basidiis non visibilibus.

Hab. in cortice Vitis viniferæ emortuæ, Hautes Pyrénées Galliæ. — A *C. olivaceo* et *C. Fuckelii* præcipue peritheciis multo minoribus diversum.

15. **Coniothyrium Staphyleæ** Peck 39 Rep. p. 40. — Peritheciis mi- 5759
nutis, 175-275 μ. lat., subglobosis, subprominulis, primo epidermide tectis, dein erumpentibus, nigris; sporulis minutissimis, ellipsoideis, subcoloratis, 4 ≃ 3,

Hab. in ramis dealbatis Staphyleæ trifoliæ, Saugerties Amer. bor.

16. **Coniothyrium Cephalanthi** Ell. et Ev. Journ. Myc. 1889, p. 149. 5760
— Maculis latis, suborbicularibus v. irregularibus, supra griseo-brunneis, subtus rubiginoso-brunneis, sæpe late confluentibus, plus

minus distincte concentrice zonatis; peritheciis hypophyllis, minutis, copiosis, erumpentibus, nigris; sporulis brunneis, continuis, globosis, 4–5 μ. diam. v. ovoideis, 4–5 ≃ 3–3,6.

Hab. in foliis vivis Cephalanthi, Bayon Chene, Louisiana Amer. bor. (Langlois).

17. **Coniothyrium Genistæ** (Roum.) Berl. et Vogl. Add. Syll. n. 4391, 5761
Septoria Genistæ Roum. in Rev. Myc. 1884, p. 230. — Peritheciis innato-erumpentibus, prominentibus, globoso-inæqualibus, brevissime papillatis, gregariis, subinde confluentibus, subcoriaceis, atris, ¾ mm. diam.; sporulis ellipticis, inæquilateralibus, brunneis.

Hab. in cortice emortuo Genistæ tinctoriæ, Carcassonne Galliæ.

18. **Coniothyrium Laburni** Rich. Cat. Champ. Marn. n. 1645 (absque 5762
diagnosi).

Hab. in ramis decorticatis Cytisi Laburni, St. Amand, Marne Galliæ.

19. **Coniothyrium cassiæcolum** Cooke in Grevillea XIII, pag. 96. — 5763
Peritheciis gregariis, globosis, cuticula elevata tectis, demum erumpentibus; sporulis ovalibus, enucleatis, pellucidis, pallide brunneis, 6 ≃ 4, continuis.

Hab. in caulibus Cassiæ marylandicæ, Kew Britanniæ.

20. **Coniothyrium ilicinum** Ell. et Anders. Bot. Gaz. 1891, p. 46. — 5764
Peritheciis epiphyllis, prominulis, epidermide atrata tectis; sporulis subglobosis v. breve ellipsoideis, pallide brunneis, 2,5-3 μ. longis.

Hab. in foliis Ilicis speciei cujusdam, Washington Amer. bor.

21. **Coniothyrium Kerriæ** Le Bret. in Rev. Myc. 1891 Oct. — Peri- 5765
theciis ....; sporulis subglobosis brunneis, 4-6 ≃ 4,5.

Hab. in ramulis emortuis Kerriæ pr. Rouen Galliæ, sociis *Phoma japonica* et *Diplodia Kerriæ*.

22. **Coniothyrium australe** Sacc. Syll. III, pag. 311. — Var. **Mespili** 5766
Pass. in Journ. hist. Nat. Bord. p. 136, Brunaud Liste Sphærops. p. 29. — Peritheciis epidermide tectis, dein erumpentibus; sporulis ovoideis, brunneis, centro guttulatis, 12,5–15 ≃ 8–10.

Hab. in ramis emortuis Mespili germanicæ, Pessines Galliæ.

23. **Coniothyrium subcorticale** Karst. Hedw. 1888. — Peritheciis spar- 5767
sis vel laxe gregariis, peridermio velatis eique ostiolo adnatis, rotundato-depressis, fragilibus, levibus, glabris, atratis, ostiolo papillato per peridermium erumpente, circiter 0,2 mm. latis; sporulis ellipsoideo-sphæroideis v. ellipsoideis, eguttulatis, ex hyalino dilute fuligineis, 4-6 ≃ 3.

Hab. in ramis emortuis Sambuci racemosæ in horto mustialensi Fenniæ. — A *Con. fuscidulo* certe diversum. *Calosphæriam vibratilem* imitatur. Perithecia peridermio soluto adhærent.

24. **Coniothyrium clandestinum** Karst. Rev. Myc. 1888. — Peritheciis 5768
sparsis, cortice tectis eique adhærentibus, solito sphæroideis, atris, nitidulis, glabris, papilla minuta perforante, circiter 0,3 mm. lat.; sporulis sphæroideo-ellipsoideis v. ovoideis, eguttulatis, dilutissime fuligineis, pellucidis, 5-7 ≃ 3-4.

Hab. ad ramos emortuos Sambuci racemosæ in horto mustialensi Fenniæ. — « Videtur idem ac præcedens ».

25. **Coniothyrium olivaceum** Bon. — Syll. III, p. 305. — Var. **Lauri** 5769
nobilis Brun. in Rev. Myc. 1886, p. 140. — Sporulis 6-8 ≃ 4.

Hab. in ramis emortuis Lauri nobilis, Saintes Galliæ. — Var. **phyllogenum** Sacc. in Rev. Myc. 1886, p. 193: a typo differt peritheciis phyllogenis, minoribus; sporulis obovatis, 7 ≃ 4, fuligineis. In foliis vivis Rhododendri, Fontainebleau Galliæ.

26. **Coniothyrium globulisporum** Speg. F. Guar. II, n. 166. — Peri- 5770
theciis epidermide innatis, lenticularibus (an dimidiato-scutatis?), minutis, 150-180 μ. diam., atris, dense sparsis, membranaceis, contextu parenchymatico parum distincto, in sicco collabascentibus, ostiolo minuto perforatis; sporulis globosis, 8-10 μ. diam., crassiuscule tunicatis, primo hyalinis, dein fuligineis.

Hab. ad corticem languidum Cactorum in cultis pr. Asuncion Amer. merid.

27. **Coniothyrium Celtidis** Brun. Suppl. Sphæroid. p. 2. — Perithe- 5771
ciis sparsis v. gregariis, tectis, dein erumpentibus, nigris, globulosis, pertusis; sporulis numerosissimis, subglobosis, 5-7 ≃ 4-5, sæpe 1-2-guttatis, brunneis.

Hab. in ramis emortuis Celtidis australis, Saintes Galliæ.

28. **Coniothyrium valsoideum** Peck in 38 Rep. St. Mus. pag. 97. — 5772
Peritheciis cæspitosis, stipatis, erumpentibus, laciniis epidermidis ruptæ circumdatis, subglobosis vel angularibus mutua pressione atris; sporulis numerosis, subglobosis vel ovatis, coloratis, 5-6.

Hab. in ramis emortuis Alni glutinosæ, West Albany Americæ borealis.

29. **Coniothyrium? Populi** Rich. Cat. Champ. Marn. n. 1647. — Sub- 5773
epidermicum; sporulis brunneis, 1-guttatis.

Hab. in ramis Populi, St. Lumier, Marne Galliæ.

30. **Coniothyrium indicum** Cooke et Mass. Grev. XVI, p. 70. — Pe- 5774
ritheciis gregariis, globosis, erumpentibus, primo tectis, dein sub-

superficialibus, atris, opacis, 0,3–0,5 mm. diam.; sporulis globosis, atro-fuscis, demum opacis, 8 μ. diam.

Hab. in ramulis Salicis, Hindu Koosh, ad 3800 metr. circ. (Gilgit Exped.).

31. **Coniothyrium fuligineum** (Karst.) Sacc., *Sphæropsis fuliginea* 5775
Sphærops. Fenn. p. 70. — Peritheciis gregariis, superficialibus, ob-ovoideis, papillatis, fuligineis, 0,2–0,3 mm. diam.; sporulis sphæroideo-ellipsoideis, 1-guttatis vel eguttatis, diaphane fuligineis, 6–8 ≃ 4–5.

Hab. in ramulis Salicis capreæ decorticatis prope Aboam Fenniæ.

III. *In Monocotyledoneis.*

32. **Coniothyrium Palmarum** Cooke et Mass. Grev. XVI, p. 7. — Pe- 5776
ritheciis subcuticularibus, sparsis, minutis, subglobosis, epidermidem elevantibus, sed vix perforantibus; sporulis ovoideis, continuis, brunneis, 8 ≃ 4–5.

Hab. in foliis emortuis Chamæropis humilis, Kew Britanniæ. — «An diversum ab homonymo Cordæ? Cfr. Syll. III, p. 318».

33. **Coniothyrium aroideum** Cooke et Mass. Grev. XV, pag. 111. — 5777
Amphigenum; peritheciis sparsis, minutis, punctiformibus, prominulis, atris; sporulis ovalibus, fuscis, 4 ≃ 3.

Hab. in foliis Colocasiæ scandentis, Gaboon, W. Africa (E. Simmonds).

34. **Coniothyrium Gastonis** (Roum.) Berl. et Vogl. Add. Syll. n. 4397, 5778
Phyllosticta Gastonis Roum. in Rev. Myc. 1886, p. 19. — Peritheciis raris, nigris, punctiformibus, applanatis, 100-150 μ. diam.; sporulis globulosis, brunneis, 5 μ. diam., guttulatis, in maculas orbiculares, brunneas confluentibus.

Hab. in foliis vivis Musæ Sapientum, Haiti Australiæ.

35. **Coniothyrium Scirpi** Trail Trans. Crypt. Scot. 1889. pag. 44. — 5779
Peritheciis sparsis, innatis, tenuibus, brunneis, sphæroideis, 100-150 μ. diam.; sporulis late fusoideis, 9–10 ≃ 4–5, pallide brunneis.

Hab. in calamis emortuis Heleocharidis palustris ad ripas Loch Achray Inverary Scotiæ.

36. **Coniothyrium inconspicuum** Cooke Grev. XVI, p. 8. — Peritheciis 5780
perexiguis, inconspicuis, breve seriatis, innatis; sporulis ellipsoideis, continuis, brunneis, 10 ≃ 4–5, initio basidiis brevibus suffultis.

Hab. in foliis Gynerii argentei, Claygate Britanniæ.

37. **Coniothyrium fuegianum** Speg. F. Fueg. n. 403. — Peritheciis 5781

minutis, lenticulari-globosis, 120-150 μ. diam., atris, glabris, hinc inde sparsis v. 3-8-seriatis, immersis v. vix prominulis membranaceis, epidermide parum circum circa infuscata tectis adnatisque, ostiolo minuto papillulato lato, 20 μ. diam. non v. vix subexserto; contextu dense parenchymatico olivaceo; sporulis e globoso ellipticis, 4–6 ∽ 3–4, utrinque obtusis, rectis vel subinæquilateralibus, olivaceis.

Hab. in foliis culmisque putrescentibus Poæ Forsteri in Chair island Fuegiæ.

38. **Coniothyrium Phalaridis** Faut. et Roum. in Rev. Myc. 1891 Oct. 5782
— Peritheciis vix tectis, ostiolo emergentibus, griseis, subglobosis; sporulis copiosissimis, coacervatis, flavo-atris, solitariis flavidis, fusoideis, 2-guttatis, 8-10 ∽ 2.

Hab. in vaginis, præcipue prope nodos culmorum Phalaridis arundinaceæ, Noidan, Côte-d'Or Galliæ. — A *Con. arundinaceo* distinguendum.

39. **Coniothyrium Oryzæ** Cav. Mat. Lomb. p. 19. — Peritheciis sparsis, immersis, globosis, brunneis, ostiolo prominulo pertusis; sporulis e strato proligero orientibus, cylindraceis v. ellipticis, utrinque obtusis, 2-guttulatis, dilute olivaceis, 11-13 ∽ 5-6. 5783

Hab. in foliis Oryzæ sativæ, Carbonara al Ticino Ital. bor.

40. **Coniothyrium hysterioideum** Karst. et Har. Journ. Bot. 1890, p. 359. — Peritheciis sparsis vel subgregariis, subcutaneis, dein vertice per epidermidem fissam subemergentibus, ellipsoideis, ovoideis, rarius suborbicularibus, depressis, demum rima longitudinali dehiscentibus, atris, 100 μ. diam. vel paullo ultra; sporulis ellipsoideis, interdum 1-guttulatis, fuligineis, pellucidis, 4-7 ∽ 3-5. 5784

Hab. ad Dasylirion, Texas Amer. bor. (Trécul).

41. **Coniothyrium Dasylirii** Celotti Mic. Montp. p. 22. — Peritheciis erumpentibus, globoso-ellipticis, ¼ mm. long., atris; sporulis globosis, 5–6 μ. diam., fuligineis. 5785

Hab. in foliis emortuis Dasylirii gracilis, Montpellier Galliæ et Roma Ital.

IV. *In Acotyledoneis.*

42. **Coniothyrium lycopodinum** Sacc. et Paol. Myc. Sibir. p. 21, f. 19. — Peritheciis laxe gregariis, globoso-depressis vix papillatis, poro pertusis, epidermide subvelatis erumpentibusque, ¼-⅓ mm. lat.; sporulis ellipsoideis, utrinque rotundatis, dilute olivaceis, 6 ∽ 2, unibiguttatis. 5786

Hab. in foliis Lycopodii annotini in silvis alpinis prope montem Borus Sibiriæ (MARTIANOFF). — Socia adest *Sphærella lycopodina*.

43. **Coniothyrium Tuberculariæ** Passer. Diagn. F. N. V. n. 32. — Peritheciis crebre sparsis, minutis, punctiformibus, fuscis, erumpentibus, contextu celluloso castaneo; sporulis globosis vel ovalibus, fuscidulis, 2,5-3 μ. diam. vel 3 ≃ 2,5. 5787

Hab. in sporodochiis Tuberculariæ in ramo Calycanthi præcocis, Parma Ital. bor.

44. **Coniothyrium? Hookeri** Speg. F. Fueg. n. 404. — Peritheciis minutis lenticulari-globosis 100–120 μ. diam., innato-prominulis non v. vix papillulato-ostiolatis, atro-olivaceis, carnosulo-membranaceis, contextu dense parenchymatico subindistincto; sporulis ellipticis, globosis vel subcuboidis 6-10 ≃ 5–6, fuligineis (an catenulatis?). 5788

Hab. in disco Cyttariæ Hookeri? e ramulis fagineis vix erumpente, Slogget bay Fuegiæ. — Species pulchella a genere nonnihil desciscens; an status spermogonicus ipsius *Cyttariæ?*

45. **Coniothyrium lichenicolum** Karst. Symb. XX, p. 104. — Peritheciis in apotheciis superficie nigrificatis, basi insculptis, sphæroideis vel sphæroideo-conoideis, atris, 100-200 μ. diam.; sporulis ovoideo-oblongis vel clavulatis, basi attenuatis, continuis, fuligineis, semipellucidis, 5-7 ≃ 3-4; basidiis bacillaribus; sporulis fere longioribus. 5789

Hab. in apotheciis Parmeliarum, Hollola, Lahtis Fenniæ.

46. **Coniothyrium Cladoniæ** (Ell. et Ev.) Sacc. *Sphæropsis Cladoniæ* Ell. et Ev. Journ. Myc. 1889, p. 149. — Peritheciis minutis, circ. 1/6 mm. diam. et paullo ultra alt., obconico-cylindraceis, supra subtruncatis; sporulis globosis vel obovato-globosis, flavido-brunneis, circ. 3 μ. diam.; basidiis validis, circ. 6 ≃ 2. 5790

Hab. in apotheciis Cladoniæ cariosæ, Emma Montana Amer. bor. (Rev. C. H. DEMETRIO).

B. *Epithyrium* Sacc. Species lignicolæ v. resinicolæ, subsuperficiales

47. **Coniothyrium obscurum** Pass. in Martelli Florula bogos. p. 148. — Peritheciis (genuinis?) fibris ligneis insidentibus v. intermixtis, oblongo-linearibus, atris; sporulis ovoideis, atro-fuscis, integris, 7,5-10 ≃ 5-6. 5791

Hab. in lignis decorticatis, Keren Abyssiniæ (BECCARI).

48. **Coniothyrium Populi** Oud. Contr. Mycol. XIII, p. 44, t. 8, f. 25. — Peritheciis membranaceis, sparsis, inter fibras ligni prominen- 5792

tibus, subsphæricis, sæpe plus minus compressis, cristæformibus, nitidis, nigris, $^1/_3$-$^2/_3$ mm. long.; sporulis fuscescentibus, numerosissimis, ellipticis aut oblongis, 8-12 ≃ 4-5, utrinque 1-guttatis.

Hab. in fragmentis ligneis ex Populo nigra, Schéveningue Nederlandiæ (Destrée).

49. **Coniothyrium innatum** Karst. Symb. XVII, p. 162. — Peritheciis 5793
subgregariis, subinde in series dispositis, innatis, vertice emergente conoideo-attenuatis, rotundatis v. subellipsoideis, glabris, atris, 0,3 mm. diam.; sporulis ellipsoideis, fuligineis, 10-14 ≃ 5-7.

Hab. in ligno vetusto salicino in regione Kolaënsi Fenniæ.

50. **Coniothyrium Resinæ** Sacc. et Berl. Misc. Myc. II, n. 130, t. IX, 5794
f. 17. — Peritheciis superficialibus, globulosis, atris, fere epapillatis, $^1/_7$-$^1/_8$ mm. diam., subiculo atro, coniothecioideo insertis; contextu celluloso, nigricante; sporulis globosis, 1-guttulatis, 1,5-2; basidiis bacillaribus, 15 ≃ 1,5-2, dilute olivaceis, fasciculatis.

Hab. in resina dejecta uda in horto patavino Ital. bor. (Dom. Saccardo). — A pycnidio *Tromeræ resinæ* contextu atro perithecii statim distinguenda species.

HARKNESSIA Cooke. — Sacc. Syll. III, p. 320.

1. **Harknessia Arctostaphyli** Cooke et Hark. in Grevillea XIII, p. 111. 5795
— Amphigena; peritheciis innatis, erumpentibus, parvulis, $^1/_3$ mm. diam., ore orbiculari elevato, subdenticulato; sporulis ellipticis, fuligineis, 20 × 9, deorsum pedicellatis; basidiis brevibus.

Hab. in foliis Arctostaphyli in California (Harkness).

2. **Harknessia affinis** E. et E. Journ. Myc. 1888, p. 51. — Pustulis 5796
valseis, multilocularibus, primitus disco albo, mox centro pertuso, tectis; sporulis ellipsoideis, opacis, 20-25 × 12-15, basidiis hyalinis circ. 25 μ. long., plerumque basi incrassatis, fultis, apice appendice subuliformi hyalina, basidiis subæquilonga præditis.

Hab. in ramis emortuis Liquidambaris styracifluæ, Plainfield, N. J. Amer. bor. (G. F. Meschutt).

3. **Harknessia fuegiana** Speg. F. Fueg. n. 406. — Maculis albis sæpe 5797
totum folium ambientibus determinatis, linea fuscescente cinctis; acervulis amphigenis laxe gregariis immersis conoideo-prominulis 300 μ. diam., apice porose dehiscentibus, pseudoperithecio subparenchymatico tenuissimo olivaceo vix evoluto; sporulis ellipticis 20-24 × 11 apice obtusiusculis, grosse 1-guttulatis, rectis, basi cauda clavulata 18-20 × 3, hyalina flexuosula acutis.

Hab. ad folia languida Mayteni magellanicæ in Picton island Fuegiæ.

4. **Harknessia caudata** E. et E. in Journ. of Myc. p. 92. — Acer- 5798
vulis (peritheciis?) innato-erumpentibus, globosis, primo epidermide tectis, dein ea poro rotundo pertusa, massam sporularum revelantibus; sporulis fusiformi-ellipticis, brunneis, 15-20 ≃ 6-8, in globulum minutum, atrum expulsis, apice appendicula setiformi, hyalina, recta vel leniter curva, 15-25 μ. longa auctis; basidiis cylindraceis, hyalinis, 12-15 ≃ 2,5-3, diu persistentibus.

Hab. in foliis et ramulis emortuis Quercus, Newfield Amer. bor. — Verisimiliter status pycnidicus *Cryptosporellæ farinosæ* habenda.

5. **Harknessia hyalina** E. et E. in Jour. of Myc. I, p. 92. — Acer- 5799
vulis (peritheciis?) innatis, subglobosis, 1/4 mm. diam., epidermide elevata subinde stellatim rupta tectis; sporulis in globulum albescentem congestis, oblongo-fusiformibus, hyalinis vel luteolis, 20-25 ≃ 4-6, appendicula setiformi, recta v. vix curva, 15-20 μ. longa auctis; basidiis brevibus, cylindraceis vel subconoideis, 6-10 ≃ 4.

Hab. in foliis emortuis Quercus coccineæ, Newfield Amer. bor. sociâ *Physalosporâ quercifoliâ*, cujus verisimiliter status pycnidicus habenda.

6. **Harknessia antarctica** Speg. F. Fueg. n. 405. — Maculis nullis; 5800
acervulis minutissimis 150-250 μ. diam., amphigenis, immersis porose dehiscentibus, cirro nigricante ornatis, pseudoperithecio substromatico olivaceo; sporulis ellipticis rectis 17-20 ≃ 7-8, apice acutiusculis non vel 1-guttulatis, basi cauda recta hyalina persistente cylindracea, 12-15 ≃ 1,5 auctis.

Hab. ad folia emortua Fagi betuloidis tuguria incolarum tegentia in Burnt island Fuegiæ. — Forma hujus speciei ramulicola e Basket island etiam adest: acervulis majusculis, 1-3 mm. diam., cortice innatis primo peridermio tumefacto tectis, dein erumpentibus, atro-cinnamomeis, stromate pluriloculari spurio donatis; sporulis ut in typo, sed paraphysibus filiformibus minutis obvallatis.

SIROTHECIUM Karst. Symb. XX, pag. 105 (Etym. *seira* catena et *thecium* pro perithecio). — Perithecia erumpenti-superficialia, subsphæroidea vel hysteriiformia, carbonaceo-membranacea, glabra, atra, demum irregulariter dehiscentia. Sporulæ sphæroideæ, continuæ, fuligineæ, concatenatæ, exiguæ e basidiis unicellularibus fasciculatim oriundæ. — Est *Sirococcus* phæosporus.

1. **Sirothecium sepiarium** Karst. loc. cit. — Peritheciis sparsis erumpenti-superficialibus, sphæroideis vel hysteriiformibus, subinde cupulato-depressis, 0,2 mm. diam.; sporulis 4-6-concatenatis, sphæroideis vel rotundato-cuboideis, continuis, ægre secedentibus, dilute fuligineis 4-6 ≈ 3-5 vel 5-6 μ. diam. in catenas simplices cylindraceis, 18-24 μ. long., e basidiis unicellularibus sphæroideis, subhyalinis, fasciculatim oriundas digestis. 5801

Hab. in ligno vetusto pineo ad Mustiala Fenniæ.

LEVIEUXIA Fr. — Syll. III, p. 321.

1. **Levieuxia borealis** Karst. in Hedw. 1887, p. 126. — Peritheciis erumpentibus, mox superficialibus, verticalibus, ovoideis, obovoideis, clavatis vel cylindraceis, glabris, carbonaceis, rigidis, superne demum diffractis, nigris, circ. 0,2 mm. alt.; sporulis ellipsoideis, aut ovoideo- vel fusoideo-oblongatis, chlorino-hyalinis, episporio obscuro, rectis, eguttulatis, 3-4 ≈ 1-2. 5802

Hab. in ligno vetusto Pini in insula Quarkensi Replot ad Fenniam.

CHÆTOMELLA Fuck. — Syll. III, p. 321.

1. **Chætomella longiseta** Delacr. Bull. Soc. Myc. 1891, p. 106, t. VII, f. *d*. — Peritheciis parce gregariis, atris, astomis, 170 μ. lat., longe setosis; subiculo mycelico, hyphis tortuosis, fuscis, 5 μ. lat., setis rectis, rigidis, continuis, fuscis, apice attenuatis, 4,5-6 μ. lat., usque ad 430 μ. long.; sporulis ovatis, guttulatis, primum hyalinis, dein fuscis vel olivaceo-cærulescentibus; basidiis fasciculatis, leviter tortuosis, nubilosis, 20-25 μ. longis. 5803

Hab. in seminibus Pisi sativi germinantibus, Parisiis Galliæ.

2. **Chætomella furcata** Cooke et Mass. Grev. XVII, p. 43. — Peritheciis superficialibus, sparsis, subglobosis, astomis, nigris, undique setosis, pilis erectis, sursum bi- vel tri-dichotomis, fuscis; sporulis ovatis vel subamygdaloideis, pallide fuscis, 10-11 ≈ 8. 5804

Hab. in foliis coriaceis, Sikkim Indiæ.

3. **Chætomella eucrypta** Cooke et Mass. Grev. XIX, p. 4. — Peritheciis immersis, demum erumpentibus, membranaceis, olivaceis, sæpe subcupularibus, setosis; setis paucis, strictis, septatis; sporulis amygdaloideis, atro-olivaceis, 16 ≈ 10, plerumque ad basim hyalino-apiculatis. 5805

Hab. in foliis emortuis Knightiæ excelsæ in Nova Zelandia (Colenso).

4. **Chætomella tortilis** Delacr. Bull. Soc. Myc. 1891, p. 106. — Peritheciis astomis, gregariis, oculo nudo inconspicuis, maculam atram efficientibus, subhemisphæricis, 150 μ. diam., setis tortuosis, simplicibus, tenuiter septatis, fusco-olivaceis, 300 ≈ 4,5-5; sporulis ovoideis, utrinque acutatis, 2-guttulatis, violaceo-atris, 12,5 ≈ 6,5; basidiis fasciculatis, acicularibus, hyalinis, 20 μ. long. 5806

Hab. in ligno Populi subcarioso, Rigny-sur-Arroux Galliæ. — Verisimiliter status pycnidicus Perisporii funiculati, cujus intime socius.

CAPNODIASTRUM Speg. Guar. I, p. 145. — Perithecia globosa, olivacea, astoma, parvula, parenchymatica, subiculo helminthosporioideo innata. Sporulæ ellipticæ vel ovoideæ, simplices (an postremo didymæ?) fuligineæ.

1. **Capnodiastrum guaraniticum** Speg. loc. cit. — Maculis nullis; subiculo tenuissimo, effuso, sæpe hypophyllo, fusco-olivaceo, ex hyphis repentibus et ramulosis, parce anastomosantibus composito; peritheciis obscure olivaceis, sparsis, subiculo immersis, globosis, 50-60 μ. diam., astomis; contextu grosse parenchymatico-celluloso; sporulis ellipsoideis vel rarius ovoideis, 16-18 ≈ 9-11, dense granuloso-nubilosis, grosse 1-guttatis, rarius 2-guttatis, episporio levi, crassiusculo donatis, obscure fuligineis. 5807

Hab. ad folia viva Celtidis boliviensis in silvis prope Guarapi Brasiliæ.

2. **Capnodiastrum paraguayense** Speg. Guar. I, p. 146. — Maculis nullis; subiculo effuso, hypophyllo, maculiformi, 2-3 mm. diam., ex hyphis ramosissimis, 4-5 μ. cr., dense intertextis efformato; peritheciis parvulis, globulosis, 70-80 μ. diam., olivaceo-fuligineis, membranaceis; contextu grosse celluloso-parenchymatico, olivaceo; sporulis ovoideis, 14-16 ≈ 7-8, nubiloso-granulosis, e strato proligero perithecii immediate oriundis, fuligineis. 5808

Hab. ad folia Celtidis sp. cujusdam prope Asuncion Amer. merid. — Species ad *Cicinnobolum* vergens.

3. **Capnodiastrum orbiculatum** Cooke et Mass. Grev. XVIII, p. 49. — Hypophyllum; maculis orbicularibus, 3 mm. diam., e mycelio nigro intertexto formatis; peritheciis minutis, globosis, submembranaceis, mycelio insertis; sporulis ellipsoideis (asco non inclusis) brunneis, medio zona pallidiore signatis, 14 ≈ 4. 5809

Hab. in foliis coriaceis, Bellenden Ker Queensland Australia (Bailey).

HAPLOSPORELLA Speg. — Sacc. Syll. III, p. 323.

1. **Haplosporella Æsculi** Cooke et Mass. Grev. XVI, p. 9. — Peritheciis minutis, nigris, in acervulos ellipsoideis vel angulosos, erumpentes, 5 mm. long., dense congestis, *Cucurbitariæ* instar, poro minuto pertusis; sporulis ellipsoideis, continuis, pallide olivaceis, 5-7 ≃ 3. 5810

   Hab. in ramis Æsculi, Kew London Britanniæ.

2. **Haplosporella viticola** Cooke et Mass. Grev. XVI, p. 9. — Erumpens, plus minus longitudinaliter seriata, pustulis ellipsoideis ex 10 vel pluribus peritheciis, majusculis, subglobosis opace nigris, vix pertusis compositis, *Botryosphæriæ* instar; sporulis majusculis, ovoideis vel late ellipsoideis, continuis, flavo-brunneis, 30-35 ≃ 10-15; basidiis crassis, sporulas subæquantibus. 5811

   Hab. in sarmentis Ampelopsidis, Kew London Britanniæ.

3. **Haplosporella marginata** Passer. Diagn. F. N. IV, n. 108. — Peritheciis parvulis, subglobosis atris, stromate carbonaceo subcutaneo erumpente; sporulis ellipticis vel elongatis, primo hyalinis, dein fuscis, hyalino-marginatis, idest endoplasmate fusco, perisporio hyalino, 17,5-20 ≃ 7,5-10; basidiis non visis. 5812

   Hab. in ramis siccis Gymnocladi canadensis in horto botanico, Parma Ital. bor.

4. **Haplosporella Bouwardiæ** Passer. Diagn. F. N. IV, n. 109. — Peritheciis in pustulas vel series lineares epidermide cinctas congestis, erumpentibus, globosis papillatis, atris, nucleo albido; sporulis ellipticis, basidiis subæquantibus fultis, diu hyalinis, tandem olivaceis semper continuis, episporio crassiusculo. 5813

   Hab. in ramis siccis Bouwardiæ versicoloris in horto botanico, Parma Ital. bor.

5. **Haplosporella seriata** E. et E. Proc. Ac. Phil. 1891, pag. 78. — Peritheciis connatis, stroma anguste oblongum, 2 mm. long., 1-2 mm. lat., formantibus, erumpentibus, sæpe in lineas plus minus continuas, plura cm. longas confluentibus; sporulis continuis ovoideis, 20-25 ≃ 10-12. 5814

   Hab. in cortice Sambuci, London Canada Americæ borealis (Dearness).

6. **Haplosporella Brunaudiana** Passer. in Rev. Myc. 1886, p. 140. — Peritheciis 1-2 stromate pulviniformi immersis, brunneis, nucleo albo; sporulis ellipsoideis, continuis, subinde 1-2-guttulatis, fuligineis, 15-20 ≃ 9-10. 5815

Hab. in ramis emortuis Ericæ scopariæ pr. Saintes Galliæ.

7. **Haplosporella Evonymi** Ell. et Ev. Journ. Myc. 1889, p. 147. — 5816
Stromatibus sparsis vel seriatis, erumpentibus, epidermide lacera laxe cinctis, hemisphæricis v. oblongis, 1-2 mm. diam, subtruncatis, demum supra albis; peritheciis omnino immersis; contextu subevanescente; ostiolo obscure papillato; sporulis oblongis, obtusis, medio lenissime constrictis (an etiam 1-septatis?), 10-14 ≃ 6-8, brunneis; basidiis gracilibus, 70-80 μ. long.

Hab. in ramis emortuis Evonymi atropurpurei, Lincoln, Nebr. Amer. bor. (H. J. Webber). — Stromata in ramis minoribus, minora sed sporulis majoribus, h. e. 18-22 ≃ 10-12.

8. **Haplosporella pilocarpina** Speg. F. Guar. II, n. 168. — Peritheciis 5817
solitariis vel 2-3-aggregatis, cortice immersis, ostiolo minuto papillulato, epidermidem macula orbiculari fusca determinata notatam vix perforante, globulosis, 120-150 μ. diam., atris, membranaceo-coriacellis; contextu parum distincto, olivaceo; sporulis ellipticis, utrinque obtusis, 26-28 ≃ 14, opace fuligineis, rectis v. sæpius subcurvulis, continuis.

Hab. ad foliorum petiolos emortuos putrescentes Pilocarpi pinnatæ in montanis Cirre de Paraguarì Brasiliæ. — Species habitu ac sporularum notis ab *H. Pilocarpi* longe abhorrens.

9. **Haplosporella Pilocarpi** Speg. F. Guar. II, n. 167. — Stromatibus 5818
valsæ- vel subtuberculiformibus, 0,5-1 mm. diam., atris, laxe aggregatis v. sparsis, primo tectis, dein pustulato-erumpentibus, carbonaceis, contextu indistincto, pluriloculatis; peritheciis (v. loculis) globosis, e mutua pressione difformibus, 100-120 μ. diam., albofarctis; sporulis elliptico- v. ovoideo-subcylindraceis, utrinque obtusis, 20-22 ≃ 10, rectis v. inæquilateralibus, paraphysatis, sterigmatibus breviusculis ac crassis suffultis, pulchre fuligineis.

Hab. ad ramulos dejectos putrescentes Pilocarpi pinnatæ in montanis, Cerro de Paraguarì Brasiliæ.

10. **Haplosporella Ailanthi** Ell. et Ev. Journ. Myc. 1889, p. 147. — 5819
Peritheciis ¾ mm. lat., cæspitoso-gregariis, cortice immersis, stromate imperfecto connexis, subseriatim erumpentibus; sporulis ovoideis v. ellipsoideis, atro-brunneis, 18-22 ≃ 8-10.

Hab. in cortice Ailanthi glandulosæ, Lyndonville N. J. Amer. bor. (Doct. C. E. Fairman).

11. **Haplosporella obscura** Pass. in Journ. hist. Nat. Bord. 1885, 5820
p. 136, Brunaud Liste Sphærops. p. 29. — Stromate carbonaceo, pulvinato, per epidermidem stellatim ruptam erumpente, sursum

granuloso-rugoso, intus pluriloculari; loculis (perithecciis?) subglobosis; sporulis ovoideis, uno apice acutis, fuligineis, 10–12 ≃ 5; basidiis longitudine variis, sæpe brevibus, filiformibus, hyalinis.

Hab. in ramis emortuis Castaneæ vulgaris, Saintes Galliæ.

12. **Haplosporella moricola** Berl. Fungi mor. fasc. I, t. 9, fig. 7–11, *Diplodia Mori* forma gregaria Auct. — Perithecciis in stromate carbonaceo, elongato, epidermidem subelevante et tandem eam radiatim vel lineatim rumpente immersis, quandoque distinctis et confluendo difformibus, nucleum album continentibus, ¼-⅕ mm. diam.; sporulis ovoideis, sæpe basi attenuatis, immaturis episporio crassiusculo præditis, pallidis, guttuligeris et plasmate bipartito loculo centrali, irregulari instructis, 20-23 ≃ 10, maturis olivaceo-fuligineis, continuis, basidiis crassiusculis, hyalinis, suffultis. 5821

Hab. in ramis corticatis crassioribus Mori albæ in Gallia.

13. **Haplosporella Baxteri** Cooke et Mass. Grev. XVI, p. 8. — Perithecciis majusculis, elongatis, obconicis, erumpentibus, in acervulos congestis, apice pertusis; sporulis ellipsoideis, rectis vel curvulis, continuis, utrinque rotundatis, brunneis, 22-30 ≃ 8-10. 5822

Hab. in ramis emortuis Oxford Britanniæ (Baxter).

14. **Haplosporella carbonacea** Pass. in Martelli Fl. bogos. pag. 148. — Perithecciis cæspitosis, erumpentibus, globosis, atris, stromate carbonaceo insidentibus vel immersis; sporulis ellipsoideis, castaneo-fuscis, integris, 10-15 ≃ 6,5-7. 5823

Hab. in rimis corticis, Keren Abyssiniæ (Beccari).

15. **Haplosporella tingens** Ell. et Langl. Journ. Mycol. 1890, p. 37. — Perithecciis subcæspitosis, 2–3-gregariis v. dense confertis, sæpe seriatim erumpentibus, demum subsuperficialibus, conicis, ⅓ mm. circ. diam., ½ mm. alt.; sporulis oblongo-ellipsoideis, 18-20 ≃ 9-11. 5824

Hab. in culmis Andropogonis muricati, St. Martinsville, Louisiana Amer. bor. — Culmus intus nigro-ardosiaco-tinctus.

Sect. 3. Phæodidymæ.

DIPLODIA Fr. — Syll. III, p. 329.

a) *In Dicotyledoneis lignosis.*

1. **Diplodia Genistarum** Cooke in Grevillea XIII, p. 96. — Subsparsa; perithecciis cortice immersis, cuticula tectis, vix perspicuis, globosis; sporulis ellipticis, uniseptatis, non constrictis, pallide brunneis, 12-14 ≃ 6. 5825

Hab. in ramulis Genistæ ætnensis et Coronillæ Emeri, Kew Britanniæ.

2. **Diplodia Psoraleæ** (Cast.) Karst. et Har. Journ. Bot. 1890, p. 359, 5826
Sphæria Cast. Cat. Mass. p. 166. — Peritheciis minutissimis; sporulis oblongis, utrinque obtusissimis, 1-septatis, ad septum leniter constrictis, loculis æqualibus, dilute fuligineis, 9-10 ≈ 3.

Hab. ad caules Psoraleæ pr. Marseille Galliæ (Castagne). — *D. perpusillæ* similis sed adhuc minor etc.

3. **Diplodia Emeri** Sacc. *Diplodia Coronillæ* Berl. et Bres. Micr. 5827
Triol. p. 69, vix Brun. — Peritheciis gregariis, epidermide tectis, majusculis, globoso-conoideis, nigris; sporulis ovoideis, ad medium 1-septatis, olivaceo-fuligineis, 18-22 ≈ 7-10.

Hab. in ramis emortuis Coronillæ Emeri prope Trento Tiroliæ.

4. **Diplodia Coronillæ** Brun. Suppl. Sphæroid. p. 2. — Peritheciis 5828
sparsis v. confertis, nigris, globulosis, tectis, dein suberumpentibus; sporulis oblongis, utrinque rotundatis, brunneis, 1-septatis, constrictis, 28-30 ≈ 12.

Hab. in caulibus emortuis Coronillæ glaucæ, Rochefort Galliæ.

5. **Diplodia lichenopsis** Cooke et Mass. XVI, p. 2. — Maculis testa- 5829
ceo-rufis, determinatis, demum pallidis v. rufo-cinctis, hinc illinc confluentibus; peritheciis semiinnatis punctiformibus, atris; sporulis ellipticis, uniseptatis, medio constrictis, utrinque subattenuatis, brunneis, 20-25 ≈ 8-10; basidiis æquilongis.

Hab. in phyllodiis Acaciæ complanatæ, Brisbane Australiæ (Bailey).

6. **Diplodia Phyllactinia** Cooke et Hark. in Grevillea XIII, p. 112. 5830
— Epiphylla; peritheciis gregariis, superficialibus, liberis, globosis (ut in *Erysipheis*); sporulis ellipticis, uniseptatis, nec constrictis, fuscis, 12 ≈ 5.

Hab. in foliis Acaciæ etc. in California (Harkness).

7. **Diplodia maculicola** Winter in Hedwigia 1885, p. 259. — Peri- 5831
theciis plerumque in maculis irregularibus rotundatisve, arescentibus, albidis vel pallide fuscidulis gregariis, ab epidermide pustulatim elevata, centro ab ostiolo perithecii minute perforata semper tectis, rarius sparsis et interdum erumpentibus, depresse globosis, fere lenticularibus, poro pertusis, tenuissime membranaceis, fuscidulis, 340-300 μ. latis; sporidiis oblongis vel ellipticooblongis, sæpe parum irregularibus, medio uniseptatis, sed non

constrictis, utrinque late rotundatis, imo subtruncatis, dilutissime fuscidulis, 11–16 ≃ 5.

Hab. ad folia viva Leguminosæ adhuc indeterminatæ pr. S. Francisco in Brasilia (E. Ule).

8. **Diplodia centrophila** Passer. Diagn. F. N. IV, n. 55. — Peritheciis 5832
sparsis, punctiformibus, atris, epidermide nigrificata tectis; sporulis minutis, ovatis, castaneis, 7,5 ≃ 5.

Hab. in aculeis Rosæ caninæ, Vigheffio pr. Parmam Italiæ borealis.

9. **Diplodia rhodophila** Passer. Diagn. F. N. V, n. 34. — Perithe- 5833
ciis crebre sparsis vel subgregariis sæpe lineatim seriatis, tectis, epidermidem sublevantibus et tandem findentibus; sporulis ellipticis, primo flavis, dein fuscis, non vel vix ad septum constrictis, 15-17,5 ≃ 7-7,5.

Hab. in ramulo sicco Rosæ cultæ, Parma Ital. bor. — Sporulis minoribus non vel vix constrictis a *D. Rosarum* videtur diversa.

10. **Diplodia spiræicola** E. et E. in Fairm. Contr. Myc. West. N. Y. 5834
p. 51, t. IV, fig. 13. — A *Dipl. Spirææ* et *D. spiræina* differt sporulis minoribus, nempe 8-10 ≃ 3-4.

Hab. in ramulis emortuis Spirææ hypericifoliæ, New York Amer. bor.

11. **Diplodia spiræina** Sacc. Syll. III, p. 342. — f. **major** Brun. in 5835
Rev. Myc. 1886, pag. 141. — Sporulis 22-30 ≃ 12-14, medio constrictis.

Hab. in ramulis emortuis Spirææ crenatæ, Saintes Galliæ.

12. **Diplodia Pruni** Fuck. — Syll. III, p. 339 — f. **Myrobolanæ** Brun. 5836
Suppl. Sphæroid. p. 3. — Peritheciis sparsis v. 2-3-gregariis, globosis, brunneo-nigris, cortice immersis, tectis, dein vix erumpentibus; sporulis oblongis, brunneis, 1-septatis, medio non v. vix constrictis, 22-25 ≃ 10-12.

Hab. in ramis emortuis Pruni Myrobolanæ, Saintes Galliæ.

13. **Diplodia Cerasorum** Fuck. — Syll. III, pag. 341 — Var. **major** 5837
Brun. Liste Sphærops. pag. 32. — Sporulis ovoideo-oblongis, 35-38 ≃ 15-17, 1-septatis, septo non vel vix constrictis, fuligineis, primo continuis granulosisque, pedicellatis.

Hab. in ramis emortuis Cerasi Avium, Saintes Galliæ.

14. **Diplodia photiniæcola** Brun. in Rev. Myc. 1886, p. 141, *Diplo-* 5838
dia Photiniæ Brun. Liste Pl. Saint. pag. 169, nec *D. Photiniæ* Speg. — Peritheciis sparsis v. gregariis, globulosis, circ. $^1/_3$ mm.

diam., atris, tectis, demum erumpentibus; sporulis oblongis primo continuis demum uniseptatis, medio non constrictis, granulosis, primo hyalino-olivaceis, dein leniter brunneolis, 28-30 ≈ 14-16.

Hab. in ramis emortuis Photiniæ serrulatæ, Saintes Galliæ.

15. **Diplodia Cruris-galli** Brun. Liste Sphær., pag. 32. — Peritheciis 5839
sparsis vel gregariis, primo tectis dein erumpentibus, globulosis vel globuloso-depressis, nigris, perforatis; sporulis oblongis, 1-septatis, fuligineis, medio constrictis, 22-28 ≈ 10-12.

Hab. in ramis emortuis Cratægi Cruris-galli, Saintes, Rochefort Galliæ.

16. **Diplodia Rubi** Fr. — Syll. III, pag. 339. — Var. **Rubi Idæi** Brun. 5840
in Rev. Myc. 1886, p. 141. — Peritheciis sparsis vel gregariis, sæpe seriatim dispositis et tum subinde confluentibus, tectis, nigris, subglobosis; sporulis ellipsoideis, oblongis, brunneis, 25 ≈ 12, uniseptatis, ad septum constrictis.

Hab. in sarmentis emortuis Rubi Idæi Saintes Galliæ.

17. **Diplodia tarentina** Passer. Diagn. F. N. IV, n. 56. — Peritheciis 5841
minutis, per epidermidem fissam erumpentibus, atris; sporulis plus minus elongatis, ellipticis, medio septatis, non constrictis, fuligineis, 15-17,5 ≈ 5-7.

Hab. in ramulis siccis Myrti tarentinæ, in horto botanico parmensi Ital. bor.

18. **Diplodia Liriodendri** Peck 44 Rep. p. 24. — Peritheciis hemi- 5842
sphæricis, subdepressis, erumpentibus, singulis v. 2-4-congregatis, nigris; sporulis ovoideis v. oblongis, initio simplicibus, dein 1-septatis, 18-23 ≈ 12-13.

Hab. in ramis Liriodendri Tulipiferæ, Sandlake Americæ borealis.

19. **Diplodia acerina** Cooke et Mass. Grev. XIX, p. 8 (cum *Leptor-* 5843
rhaphide acerina Rehm Ascom. n. 197). — Peritheciis tectis, subsparsis, globuloso-papillatis, atris, vix conspicuis; sporulis constricto-didymis, brunneis, utrinque rotundatis, 17 ≈ 9.

Hab. in cortice Aceris campestris in Germania et Britannia.

20. **Diplodia atrata** (Desm.) Sacc. Syll. III, p. 331. — Var. **Pseudo-** 5844
platani Brun. Liste Sphærops. p. 30. — Sporulis 22-26 ≈ 11-12

Hab. in ramis emortuis Aceris Pseudoplatani, Saintes Galliæ.

21. **Diplodia Linderæ** Ell. et Ev. Proc. Acad. Phil. 1891, p. 79. — 5845
Peritheciis sparsis, epidermide tectis v. partim erumpentibus, par-

vis; sporulis oblongo-ellipsoideis, brunneis, 1-septatis et constrictis, 10-12 ≈ 3-4.

Hab. in ramis emortuis Linderæ Benzoin, Newfield et London Amer. bor. — A *D. Harknessii* vix distinguenda.

22. **Diplodia laurina** Sacc. Syll. III, pag. 348. — Var. **minor** Pass. in Journ. hist. Nat. Bord. p. 136, Brunaud Liste Sphærops. p. 35. — Sporulis 18-20 ≈ 10-12, septo non vel vix constrictis. 5846

Hab. in ramis emortuis decorticatisque Lauri nobilis, Saintes Galliæ.

23. **Diplodia multicarpa** Peck 44 Rep. p. 24. — Peritheciis numerosissimis, subinde ramum totum ambientibus, minutis, erumpentibus, leniter prominulis, epidermide longitrosum v. stellatim rupta partim tectis, nigris; sporulis oblongo-ellipsoideis, 18-23 ≈ 10-11. 5847

Hab. in ramis Lauri Sassafras, Carrollton Amer. bor.

24. **Diplodia Philadelphi** Celotti Mic. Montp. p. 23. — Peritheciis sparsis, primum epidermide tectis, demum erumpentibus, globoso-depressis, obtuse papillatis, 1/2 mm. diam., atris; sporulis ovoideis, 1-septatis, constrictis, atro-fuligineis, 24-26 ≈ 8-10. 5848

Hab. in ramis Philadelphi Gordoniani, Montpellier Galliæ.

25. **Diplodia cistina** Cooke in Grevillea XIV, pag. 4. — Gregaria, immersa, cortice tecta; peritheciis late conicis, atris, sæpe in lineas vel in pustulas parvas dispositis; sporulis ellipticis, uniseptatis, non constrictis, brunneis, 16-22 ≈ 9-10. 5849

Hab. in caulibus et ramulis Cisti laurifolii, Kew Brit.

26. **Diplodia Dearnessii** Ell. et Ev. Proc. Acad. Phil. 1891, pag. 79. — Peritheciis sparsis, erumpenti-superficialibus, 0,5 mm. diam., subglobosis; sporulis angustè ellipsoideis, brunneis, 1-septatis, 8-10 ≈ 3,5-4. 5850

Hab. in ramis decorticatis Ribis, London Canada Amer. bor. — Differt a *D. Ribis* sporulis multo minoribus.

27. **Diplodia Ribis** Sacc. Syll. III, p. 344. — Var. **Ribis-malvacei** Brunaud Liste Sphærops. p. 33. — Sporulis 28-30 ≈ 12-12,5. 5851

Hab. in ramis emortuis Ribis malvacei, Saintes Galliæ. — Var. **Ribis-aurei** Br. loc. cit. Sporulis 28 ≈ 12. In ramis emortuis Ribis aurei, Saintes Galliæ. — Var. **Ribis-sanguinei** Brun. loc. cit. Sporulis 22-25 ≈ 12-15. In ramis emortuis Ribis sanguinei, Saintes Galliæ.

28. **Diplodia papillosa** Ell. et Ev. Proc. Acad. Phil. 1891, p. 79. — Peritheciis sparsis, 1/4-1/3 mm. diam., cortice in papillas minutas 5852

elevato, tectis; sporulis oblongo-ellipsoideis, flavo-viridulis, 1-septatis, leniter constrictis, 12-15 ≈ 6-7.

Hab. in cortice emortuo Corni, London Canada Amer. bor. — Socia adest *Didymella Corni*, cujus forte status stylosporicus.

29. **Diplodia Sclerotiorum** Viala et Sauv. in Journ. de Bot. 1891, p. 365, t. V, f. 12. — Peritheciis epiphyllis, exacte sphæricis, 100 μ. diam., apice collo lato prominulo præditis; contextu crasso, irregulariter parenchymatico; sporulis ovoideis, demum pallidissime brunneo-fuligineis, eguttatis, parce granuloso-farctis, 1-septatis, 12 ≈ 5,5. 5853

Hab. in foliis Vitis Labruscæ, Colomb., New-Jersey, Delaw., Maryland, N. Y. Amer. bor.

30. **Diplodia nematospora** Sacc. F. Abyss. n. 39, fig. 12. — Peritheciis gregariis, erumpentibus, globoso-papillatis, 0,3 mm. diam.; sporulis ellipsoideo-oblongis, 1-septatis, vix constrictis, 28-30 ≈ 10-12, breve pedicellatis, pseudoparaphysibus filiformibus, hyalinis 75 ≈ 2 initio obvallatis. 5854

Hab. ad ramos emortuos Vitis Hochstetterianæ inter alas subereas, in Erythræa.

31. **Diplodia Ampelopsidis** Brun. Esp. Sphærops. p. 2. — Peritheciis sparsis v. 2-3-gregariis, cortice nidulantibus, dein erumpentibus, nigris, pertusis; sporulis oblongis, fuligineis, 1-septatis, non vel vix constrictis, 20-28 ≈ 10-12. 5855

Hab. in cortice ramulorum emortuorum Ampelopsidis quinquefoliæ, Saintes Galliæ.

32. **Diplodia Æsculi** Lév. — Syll. III, p. 331 — var. **Capsularum** Brun. Esp. Sphærops. p. 2. — Peritheciis globosis, nigris, epidermide non lacerata tectis, poro pertusis; sporulis oblongis, 1-septatis vix constrictis, fuligineis, 15-18 ≈ 8. 5856

Hab. ad basin capsularum Æsculi Hippocastani, Saintes Galliæ.

33. **Diplodia carpogena** Passer. Diagn. F. N. V, n. 33. — Peritheciis sparsis, erumpentibus, globosis, atris; sporulis elongato-ellipticis, diu hyalinis, integris, tandem prope medium septatis, rarissime biseptatis non constrictis, 25-30 ≈ 10, castaneo-fuscis. 5857

Hab. in pericarpio fracido Æsculi Hippocastani in horto botanico, Parma Ital. bor.

34. **Diplodia sambucicola** F. Fautrey Rev. Myc. 1891 Oct. — Peritheciis parvis punctiformibus, nitentibus, sparsis vel laxe gregariis; sporulis fusoideis, numerosis, in massa saturate olivaceis, singulis tamen pallide olivaceis, 1-septatis, 10-15 ≈ 2-2,5. 5858

Hab. in ramulis corticatis Sambuci nigræ, Noidan Côte-d'Or Galliæ (F. Fautrey).

35. **Diplodia Opuli** Passer. Diagn. F. N. IV, n. 57. — Peritheciis subseriatim digestis, epidermidem perforantibus, globosis, atris, ostiolo brevi, conico, contextu celluloso, fusco-cœrulescente, circumscisse deciduis; sporulis ellipticis, diu integris, hyalinis, tandem septatis, sordide lutescentibus, non constrictis, 20 ≃ 10-12. 5859

Hab. in ramis emortuis Viburni Opuli in horto botanico parmensi Ital. bor.

36. **Diplodia viburnicola** Brun. Fung. Gall. nov. in Jour. d'Hist. nat. 1885, n. 4, pag. 55. — Peritheciis sparsis vel gregariis, minutis, globosis, nigris, tectis, demum erumpentibus, epidermide rimose rupta cinctis; sporulis oblongis, utrinque rotundatis, 1-septatis, medio constrictis, 23 ≃ 12-13, fuliginosis. 5860

Hab. in ramis siccis Viburni Tini prope Saintes in Gallia. — A *D. Tini* forma ramulicola differt sporulis medio constrictis.

37. **Diplodia pterophila** Fautrey in Rev. myc. 1890, p. 124. — Peritheciis sparsis, minutissimis, punctiformibus, globosis, pallidis, dein nigris; sporulis oblongis, in massa pallide flavis, singulis hyalinis, 1-septatis, 10-16 ≃ 2, sæpe 12 ≃ 2. 5861

Hab. in samaris Fraxini excelsioris, sociis *Phoma samararum* et *Phoma pterophila*, Noidan Côte-d'Or Galliæ (F. Fautrey). — « An potius *Ascochyta?* »

38. **Diplodia Pittospororum** Sacc. *D. Pittospori* Celotti Mic. Montp. p. 24, nec C. et H. — Differt a *Dipl. Pittospori* sporulis multo minoribus scilicet 8-10 ≃ 4-5. 5862

Hab. in ramis Pittospori sinensis, Montpellier Galliæ.

39. **Diplodia Celottiana** Sacc., *D. Jasmini* Celotti Mic. Montpell. p. 23, nec West. — A specie Westendorpii abunde differt sporulis multo minoribus, nempe 9-12 ≃ 3-4 (nec 30 ≃ 15). 5863

Hab. in ramulis tenuioribus Jasmini triumphantis, Montpellier Galliæ. — « Probabiliter species hæc et præcedens ad *D. microsporellam* accedunt »,

40. **Diplodia Rosmarini** Celotti Mic. Montp. pag. 25 (1887), *Diplodia Rosmarini* Passer. Diagn. F. N. IV, n. 59 (1888). — Peritheciis subcutaneis, non erumpentibus 150 μ. diam., tandem cortice soluto nudatis, atris, ligno adnatis, subglobosis, ostiolo papillari; sporulis ellipticis, medio septatis et constrictis, loculis aliquantum inæqualibus, guttulatis, 15-20 ≃ 8-11, castaneo-fuscis. 5864

Hab. in ramis siccis Rosmarini officinalis, Talignano in

agro parmensi Ital. bor. et Montpellier Galliæ. — Species Passeriniana eadem est ac Celottiana.

41. **Diplodia Veronicæ** Fautr. Rev. Myc. 1891, p. 131. — Peritheciis majusculis, carbonaceis, applanatis, inter corticis rimas prominentibus; sporulis oblongis, rotundatis, 1-septatis, fuligineis, 26 = 10. 5865

Hab. in Veronica lignosa exotica, Noidan Côte-d'Or Galliæ.

42. **Diplodia Agni-casti** Pass. in Erb. Critt. Ital. Ser. II, n. 1479. — Peritheciis cortice immersis, miliariformibus, crebre lateque sparsis, tectis, dein epidermide fissa apice denudatis, atris; sporulis ellipticis, medio leniter constrictis, castaneo-fuscis, magnitudine varia, ut plurimum 15 = 7. 5866

Hab. ad ramulos Viticis Agni-casti gelu tactos pr. Parma Ital. bor.

43. **Diplodia Paulowniæ** Cooke in Grevillea XIII, p. 96. — Subsparsa; peritheciis subglobosis, atris, longitudinaliter erumpentibus, non superficialibus; sporulis ellipticis, vix constrictis, uniseptatis, brunneolis, 20-22 = 8. 5867

Hab. in ramulis Paulowniæ imperialis, Kew Britanniæ.

44. **Diplodia Gales** Bomm. Rouss. Sacc. Contr. Mycol. Belg. IV, p. 83. — Peritheciis subepidermicis, globoso-conicis, prominulis, poro pertusis; sporulis ellipsoideis, fuligineis, obtusis, valde constrictis, 21-25 = 7-12, interdum 2-guttatis; basidiis brevibus, fascicularibus, clavatis. 5868

Hab. in ramis tenellis emortuis Myricæ Gales, Westmalle Belgii.

45. **Diplodia Visci** (DC.) Fr. Summa Veg. Scand. p. 417, Fuck. Symb. p. 168; *Sphæria* DC. Fl. Fr. VI, p. 146. — Peritheciis gregariis, tectis, viridi-atris, globosis, vertice obtuse conicis; sporulis ovatis, didymis, raro simplicibus, fuscis, minutis sed magnitudine variis (Fuck.). 5869

Hab. in ramulis corticatis et foliis Visci albi in Germania, Gallia. — Status stylosporus *Gibberideæ Visci* sec. Fuck. — « Specimina sub nomine *Sphæriæ atrovirentis* in Exsicc. Schm. et Kunze n. 76 et Moug. et Nest. Stirp. n. 486, a Friesio huc citata, ad *Sphæropsidem Visci* (Sollm.) Sacc. referenda sunt! »

46. **Diplodia samararum** Brun. Esp. Sphærops. p. 2. — Peritheciis sparsis, punctiformibus, minutissimis, globosis, nigris; sporulis oblongis, pallide brunneis, 9-10,5 = 4-5, medio constrictis et septatis. 5870

Hab. in samaris dejectis Ailanthi glandulosæ, Saintes Galliæ.

47. **Diplodia Pistaciæ** Berl. et Bres. Micr. Trid. p. 69, t. VI, f. 3. — 5871

Peritheciis sparsis, epidermide primo tectis, demum subprominulis, atris, late conoideis, rugosulis, ostiolo obtusissimo, 350-400 μ. diam.; sporulis ovoideo-ellipsoideis, primo hyalinis dein olivaceo-lutescentibus, diu continuis, demum 1-septatis v. vix constrictis, saturate olivaceo-fuligineis, 18-20 ≃ 9-12, basidiis brevioribus, crassiusculis suffultis.

Hab. in ramis exsiccatis Pistaciæ Terebinthi pr. Trento Tiroliæ. — *D. Staphyleæ* affinis.

48. **Diplodia Rhois** Sacc. Syll. III, p. 334. — Post verba «globosis, papillatis» adde: sporulis oblongis, constricto 1-septatis, 20-22 ≃ 8-10, fuligineis.

49. **Diplodia Panacis** (Fr.) Cooke Grev., *Sphæria* Fr., Syll. II, n. 4321. Sec. exempl. Scler. Suec. n. 319, sporulæ sunt 1-septatæ, 22-25 ≃ 8. — *Sphæria acinosa* Fr., Syll. II, n. 4236, sec. exemplaria Moug. et Nestl. Stirp. Vog. esset *Diplodiæ* species.

50. **Diplodia Marumiæ** Sacc. et Paol. Myc. Malac. pag. 27, tab. III, f. 6. — Maculis arescendo dealbatis, inæqualibus; peritheciis epiphyllis, punctiformibus, 1/5 mm. diam., globoso-depressis, pertusis, hyphulis mycelicis fuscis circumdatis; sporulis oblongo-obovatis, utrinque rotundatis, 25 ≃ 12, diu hyalinis, continuis, granulosis, tandem uniseptatis, fuscis. 5872

Hab. in foliis languidis Marumiæ in pæninsula malacensi Asiæ austr. (Scortechini).

51. **Diplodia canthiifolia** Cooke et Mass. in Grev. XX, p. 36. — Epiphylla; peritheciis sparsis, immersis, membranaceis, atro-brunneis, epidermidem perforantibus; sporulis ellipsoideis, diu continuis, demum elongatis et uniseptatis, subconstrictis, brunneis, primitus 8 ≃ 5, dein 12 ≃ 5. 5873

Hab. in foliis Canthii latifolii, Tempe Downs Australiæ (Mueller).

52. **Diplodia microsporella** Sacc. Syll. III, pag. 357 — var. **Cordiæ** Passer. Diagn. F. N. V, n. 35. — Peritheciis crebre sparsis vel subgregariis, tectis, minutis suberumpentibus; sporulis ellipticis septatis, non constrictis, primo hyalinis, dein fumidis, basidiis brevissimis fultis, 10 ≃ 5. 5874

Hab. in ramulis emortuis Cordiæ Myxæ, Panisperma Roma.

53. **Diplodia Cactorum** Speg. F. Guar. II, n. 172. — Peritheciis cortice immersis, epidermide tectis, e globoso lenticularibus, 150-200 μ. diam., non vel vix prominulis, atris, glabris, subcarbonaceis, contextu grosse parenchymatico-celluloso, fere opaco ac subiadi- 5875

stincto, ostiolo non vel vix papillulato ornatis; sporulis ellipticis vel ovoideis, primo continuis, hyalinis, dein didymis, ad septum non vel vix constrictis, utrinque obtusis, 30-35 ≃ 14-16, granuloso-farctis, subopace e roseo fuligineis, sterigmatibus brevissimis, hyalinis suffultis, paraphysibus filiformibus longioribus obvallatis.

Hab. ad corticem putrescentem Cerei cujusdam arborei in silvis pr. Paraguarì Brasiliæ.

54. **Diplodia Sterculiæ** Winter in Hedwigia 1886, pag. 103. — Peritheciis gregariis, semper omnino immersis, fere lenticularibus vel depresse globosis, pariete crasso, atro, coriaceo-membranaceo, ostiolo cylindrico, obtuso, crasso, peridermium perforante donatis, prominulis, 310-420 μ. diam., 210-240 μ. altis, hyphis fuscis, repentibus obsitis; sporulis ellipticis, medio septatis sed non constrictis, fuscis, 24-30 ≃ 12-14, copiose expulsis et substratum longe lateque inquinantibus. 5876

Hab. in fructu putri Sterculiæ in insula St. Thomé Africæ occidentalis.

55. **Diplodia Kœlreuteriæ** Sacc. Syll. III, p. 331. — Var. **minor** Brunaud Liste Sphærops. pag. 30. — Sporulis 20-25 ≃ 10, ad septum constrictis. 5877

Hab. in ramis emortuis Kœlreuteriæ paniculatæ, Saintes Galliæ.

56. **Diplodia antiqua** Passer. Diagn. F. N. IV, n. 110. — Peritheciis tectis, parenchymati corticali immersis, subglobosis, ostiolo obtuso, epidermidem lacerantibus et dein erumpentibus, atris, opacis; contextu celluloso, fusco-cœrulescente, nucleo albo; sporulis cirrose ejectis, ellipticis, primo hyalinis, integris, tandem medio septatis, non constrictis, fuligineis, 22-25 ≃ 10-12. 5878

Hab. in caule fracido Euphorbiæ antiquorum, Parma in horto botanico Ital. bor.

57. **Diplodia inconspicua** Cooke in Grevillea XIII, p. 96. — Hypophylla; peritheciis minutis, immersis, inconspicuis, gregariis, cuticula non decolorata tectis; sporulis ellipticis, non constrictis, uniseptatis, pallide brunneis, 12 ≃ 6, 5879

Hab. in pagina superiore et inferiore foliorum emortuorum Buxi sempervirentis, Kew Britanniæ. — A *D. Buxi* certe distincta.

58. **Diplodia asclepiadea** C. et Ell. — Syll. III, p. 365 — ***D. Periplocæ** Berl. et Bres. Micr. Trid. pag. 70. — Peritheciis gregariis, globoso-conoideis, epidermide tectis, ostiolo conoideo protuberantibus; 5880

sporulis ellipsoideis, ad medium 1-septatis, vix constrictis, 18–22 ≃ 8-10, olivaceis, basidiis brevibus suffultis.

Hab. in sarmentis emortuis Periplocæ græcæ prope Trento Tiroliæ cisalpinæ.

59. **Diplodia vincæcola** Brun. in Rev. Myc. 1886, pag. 141. — Peri- 5881
theciis sparsis vel gregariis, globulosis, tectis, ostiolo papilliformi erumpente, atris; sporulis ovato-oblongis, brunneis, 1-septato-constrictis, 22–35 ≃ 12-15.

Hab. in caulibus emortuis Vincæ majoris, Saintes Font-couverte Galliæ. — An *D. Vincæ* Rich. Cat. Camp. Marn. n. 1682 huc pertineat, deficiente diagnosi, omnino latet.

60. **Diplodia Ochromæ** Pat. Bull. Soc. Myc. 1888, p. 122. — Perithe- 5882
ciis minutis, nigris, hinc inde late gregariis, primo ligno immersis, dein semisuperficialibus, globulosis, ostiolatis; sporulis numerosis, ovoideis, brunneis utrinque obtusis 1-septatis, non constrictis, 27-29 ≃ 15.

Hab. in trunco decorticato Ochromæ Lagopi, San Fernando Venezuelæ. — Ligni contextus a mycelio brunneo, septato nigrificatus. — « Potius *Diplodiella* ».

61. **Diplodia Osyridis** (Cast.) Har. et Br. Journ. de Bot. 1891, p. 171, 5883
Sphæria Cast. Cat. Mars. p. 167 p. p. — Peritheciis sparsis, plus minus contiguis, subepidermicis, globuloso-punctiformibus, atris, $^1/_4$–$^1/_3$ mm. diam.; sporulis obtusissimis, brunneo-opacis, rarius septatis, 20–24 ≃ 11-12.

Hab. ad ramos Osyridis albæ, Aquæ Sextiæ pr. Massiliam Galliæ (Castagne).

62. **Diplodia amphisphærioides** Passer. Diagn. F. N. V, n. 37. — Peri- 5884
theciis sparsis vel interdum uno alterove contiguis, primo tectis, dein erumpentibus nudatis, orbicularibus, depressis, ostiolo papillari, atris opacis, contextu carbonaceo; sporulis ellipticis, septatis non constrictis, castaneis 17,5–20 ≃ 7,5; basidiis non visis.

Hab. in cortice truncorum Quercus, Velleja prov. Piacenza Ital. super. — Perithecia *Amphisphæriam* simulant, cujus forte pycnidium sistunt.

63. **Diplodia australis** Passer. Diagn. F. N. V, n. 36. — Peritheciis 5885
crebre sparsis epidermide velatis, dein nudatis, atris, hæmisphæricis, astomis, contextu celluloso fuligineo; sporulis ellipticis, crassitie varia, castaneo-fuscis, episporio crasso, ad septum submedium vehementer constrictis, loculo altero sæpius crassiore, 17-25 ≃ 8-15.

Hab. in ramulis emortuis Celtidis australis, Vigheffio prov. Parma.

64. **Diplodia oblonga** Har. et Br. Rev. Myc. 1891, p. 16. — Perithe- 5886
ciis innatis, nigris, oblongis, lanceolatis, secus fibras ligni dispositis, 0,5-1 mm. long., 1/6-1/5 mm. lat.; sporulis oblongis, utrinque rotundatis, 1-septatis, loculis 1-guttatis, non v. vix constrictis, castaneo-brunneis, 24-28 ≃ 9-10.

Hab. in Salice decorticato, London, Vienne Galliæ. — «An *Diplodiellæ* species?»

65. **Diplodia salicina** Lév. in Ann. Sc. Nat. (Bot.) 1846, p. 292. — 5887
Peritheciis gregariis, innatis, globosis, nigris, erumpentibus, epidermide tectis, ostiolis papillatis, demum deciduis; sporulis ellipticoblongis, 21-24 ≃ 8-11, leniter constrictis, fuligineis, hyalinostipitatis.

Hab. in ramis Salicis albæ in Gallia, Germania, Italia, Nederlandia.

66. **Diplodia cærulescens** Passer. Diagn. F. N. IV, n. 112. — Peri- 5888
theciis lenticularibus, epidermidem pustulatim sublevantibus et pustulam apice perforantibus; contextu fusco-cœrulescente; sporulis ellipticis, primo hyalinis, dein plus minus cœruleis vel (semper?) hyalinis, integris, tandem medio septatis, subconstrictis, griseo-fuscis, 22,5 ≃ 10.

Hab. in ramulis siccis Salicis viminalis, Vigheffio pr. Parma Ital. bor.

67. **Diplodia ditior** Sacc. et Roum. Syll. III, p. 352. — Var. **petio-** 5889
lorum Brun. Liste Sphærops. pag. 36. — Sporulis 30 ≃ 14, medio valde constrictis.

Hab. in petiolis Platani orientalis, Saintes Galliæ.

68. **Diplodia gongrogena** Temme Verh. Pr. Brand., 1874 p. 42, 1887, 5890
p. XXVII. — Peritheciis globosis, nigris, 350-540 μ. diam.; ostiolo punctiformi; sporulis elongato-ellipsoideis vel fusoideis, 30-45 ≃ 9-12, membrana hyalina pluristratosa; basidiis aliis fertilibus, filiformibus, raro septatis, 2,5-4,5 μ. cr., aliis sterilibus, tenuissimis.

Hab. in ramis Populi tremulæ, in qua tumores (*Holzkropfen*) generat, in Germania merid.

69. **Diplodia Juglandis** Fr., Syll. III, p. 352 — var. **fructicola** Brun. 5891
Miscell. mycol. p. 17. — Peritheciis sparsis v. gregariis, tectis, dein erumpentibus, globosis, nigris, submicantibus, intus griseolis, pertusis; sporulis ovoideo-oblongis, primo hyalinis, granuloso-farctis, dein fuligineis, 1-septatis, vix constrictis, 28-30 ≃ 14-16.

Hab. in fructibus exsiccatis et præmature dejectis Juglandis regiæ, Saintes Galliæ.

70. **Diplodia corylina** Brun. Esp. Sphærops. p. 2. — Peritheciis sparsis v. gregariis, nigris, nitentibus, tectis, dein erumpentibus, pertusis; sporulis ovoideis, primo continuis, dein 1-septatis, non v. vix constrictis, 15-18 ≃ 8-9, subpallide fuligineis. 5892

Hab. in pericarpio duro Coryli Avellanæ, Saintes Galliæ.

71. **Diplodia sapinea** (Fr.) Fuck. — Syll. III, p. 356. — Var. **Pinsapo** Brun. Esp. Sphærops. p. 2. — Sporulis ellipsoideo-oblongis, utrinque rotundatis, 1-septatis, ad septum constrictis, interdum 2-guttatis, fuligineis, 15-18 ≃ 6-8. 5893

Hab. in ramulis emortuis Abietis Pinsapo, Saintes Galliæ.

72. **Diplodia Foucaudii** Brun. Esp. Sphærops. p. 2. — Peritheciis numerosis, sparsis v. approximatis, epidermide nigrificata tectis, poro pertusis, globosis, nigris, intus nigrescentibus; sporulis oblongis, utrinque obtusis, primo continuis, subflaveolis, granuloso-farctis, dein 1-septatis, ad septum constrictis, fuligineis, 25-30 ≃ 11-15. 5894

Hab. in ramis emortuis Taxi macrophyllæ in horto botanico Rochefort Galliæ.

73. **Diplodia galbulorum** Brun. Esp. Sphærops. p. 2. — Peritheciis sparsis v. gregariis, minutis, scutatis, dimidiatis, nigris; sporulis oblongis, brunneolis, 14-15 ≃ 4-6, ad septum non v. vix constrictis. 5895

Hab. in galbulis exsiccatis Juniperi communis, Saint-Césaire pr. Saintes Galliæ.

74. **Diplodia Deodaræ** Brun. Champ. Saint. V p. 5. — Peritheciis innatis, per epidermidem rimoso-laceratam erumpentibus, sparsis, gregariis v. seriatis, globoso-conicis, ostiolo papillato, nigris; sporulis oblongis, 20-25 ≃ 12, non v. rarissime ad septum constrictis, fuligineis. 5896

Hab. in foliis Cedri Deodaræ, Saintes Galliæ.

75. **Diplodia guaranitica** Speg. Guar. I p. 148. — Peritheciis lenticulari-globosis, 150-200 μ. diam., matrice denudata, plana, ad medium usque insculpta dense confertis sed non confluentibus, carbonaceis, atris, levibus v. vix, rugosulis, glabris, contextu indistincto, atro, opaco, ostiolo minutissimo vix papillulato pertusis; sporulis ellipsoideo-ovoideis v. subpiriformibus, rectis v. vix inæquilateralibus, medio 1-septatis, parce constrictis, loculo supero nonnihil majore obtusioreque, infero subconico ac minore; basidiis subconicis, 10 ≃ 5, paraphysibus sporulis 2-3-plo longioribus, paucis, septulatis v. torulosis, diffluentibus. 5897

Hab. ad corticem putrescentem arboris cujusdam pr. Carapeguà Brasiliæ.

76. **Diplodia? nutans** Speg. F. Guar. II n. 173. — Stromate cortice innato, repente, maculas irregulares, elongatas, ramoso-anastomosantes, atras efformante, tenui, epidermide tecto; peritheciis stromate immersis, non v. vix prominulis ac epidermidem perforantibus, hinc inde gregariis, lenticulari-globulosis 150-220 μ. diam., subcarbonaceis; contextu indistincto; sporulis elliptico-ovatis v. subglobosis 22-30 ≃ 14-16, diu continuis, hyalinis, dein medio 1-septatis, non constrictis, roseo-fuligineis, sterigmatibus longiusculis crassiusculisque, 30-35 ≃ 5-9, suffultis, paraphysibus filiformibns prælongis obvallatis. 5898

Hab. ad ramulos dejectos, putrescentes in silvis Guarapì Brasiliæ.

77. **Diplodia kerensis** Pass. in Martelli flor. bog. p. 148. — Peritheciis gregariis, globoso-oblongis, tectis, dein epidermide fissa vix erumpentibus; sporulis oblongo-ellipsoideis, septatis, non constrictis, castaneo-fuscis, 15-20 ≃ 7,5-10. 5899

Hab. in rimis corticis, Keren Abyssiniæ (Beccari).

II. *In Dicotyledoneis herbaceis.*

78. **Diplodia Cucurbitaceæ** Ell. et Langl. Journ. Myc. 1890, p. 37. — Peritheciis innato-erumpentibus, apice prominulis, epidermide nigrificata tectis; sporulis ellipsoideis, brunneis, 1-septatis, 20-25 ≃ 10-12. 5900

Hab. in ramis emortuis Cucurbitæ, Louisiana Amer. bor.

79. **Diplodia Crassulæ** Cooke et Hark. in Grevillea XIII, p. 112. — Caulicola; peritheciis gregariis, subcutaneis, globosis, atris, demum epidermide fissa erumpentibus; sporulis ellipsoideis, uniseptatis, medio vix constrictis, fuscis, 20-22 ≃ 8. 5901

Hab. in caulibus Crassulæ in California (Harkness).

80. **Diplodia Aparines** Passer. Diagn. F. N. IV, n. 58 (1888). — Peritheciis sparsis, erumpentibus, globoso-conicis, atris; sporulis ellipticis, diu integris, hyalinis, tandem septatis, non constrictis, fuligineis, non v. vix pedicellatis, 20-25 ≃ 10-12. 5902

Hab. in caulibus emortuis Galii Aparines, Parma Ital. bor. Peritheciis sparsis et sporulis non constrictis a *D. herbarum* diversa.

81. **Diplodia Briardi** Sacc. *Diplodia Aparines* Briard Rev. Myc. 1889, p. 16 nec Pass. — Peritheciis innatis, globosis, subapplanatis, epidermide translucide nigrificata tectis, 1/3-1/2 mm. diam.; ostiolo co- 5903

nico, epidermidem interdum perforante; sporulis ovoideo-oblongis, obtusis, 1-septatis, ad septum constrictis, brunneis, 24-28 ≃ 12.

Hab. in caulibus siccis Galii Aparines, Noidan Côte-d'Or Galliæ (Briard). « An satis diversa a præcedente? »

82. **Diplodia Medicaginis** Brun. Liste Sphærops. pag. 37. — Peritheciis 5904
sparsis vel gregariis, subglobosis, nigris, primo tectis dein erumpentibus; sporulis ovoideo-elongatis, utrinque sæpe subacutis, 1-septatis, medio non constrictis, loculis uniguttatis, brunneis, 25 ≃ 10.

Hab. in caulibus emortuis Medicaginis sativæ, Saintes Galliæ.

83. **Diplodia Rehmii** Bäumler in Hedw. 1885, p. 75 — Peritheciis 5905
immersis, sparsis vel subaggregatis, globosis, ostiolo papilliformi, peridermium perforante donatis, atris, membranaceis, 200-300 μ. diam.; sporulis subclavatis, medio uniseptatis, non vel vix constrictis, maturitate opace nigris, levibus, loculo inferiore parum angustiore, utrinque rotundatis, 16-20 ≃ 8-10.

Hab. in caulibus emortuis Pelargonii, Pressburg Hungariæ.

84. **Diplodia Hellebori** Brun. Champ. Nouv. VI, p. 2. — Peritheciis 5906
sparsis v. gregariis, interdum secus ligni fibras seriatim dispositis, sæpe confluentibus, globosis v. globoso-oblongis, compressis, nigris, erumpentibus; sporulis oblongis, 1-septatis, ad septum non v. vix constrictis, fuligineis, 20-22 ≃ 12.

Hab. in caulibus emortuis et decorticatis Hellebori fœtidi, Saintes Galliæ.

85. **Diplodia Seminulum** Pat. in Rev. Myc. 1886. p. 83. — Peritheciis 5907
minutissimis, nigris, lucentibus, globulosis, 40-60 μ. diam.; sporulis ovoideis, uniseptatis, 6-7 ≃ 3-4, brunneis.

Hab. in foliis emortuis Primulæ bracteatæ, Lankong Yunnan Sinarum (Ab. David).

86. **Diplodia Tanaceti** Karst. et Har. Journ. Bot. 1890, p. 359. — 5908
Peritheciis sparsis v. seriatis, erumpentibus, oblongatis v. elongatis rarius globulosis, poro pertusis, atratis, perparvis; sporulis elongatis, utrinque vix v. leniter attenuatis, rectis v. curvulis, luteolis, 9-13 ≃ 1,5-2,5.

Hab. in caulibus aridis Tanaceti, Méry-sur-Seine Galliæ. — A *D. caulicola* certe diversa.

87. **Diplodia pusilla** Sacc. et Briard in Rev. Myc. 1886. — Perithe- 5909
ciis sparsis, globosis, sæpe depressis, diu epidermide tectis, dein liberis $^1/_5$-$^1/_4$ mm. diam.; ostiolo papillato, centrali; sporulis ovalibus

vel ovato-oblongis, obtusissimis, 1-septatis, ad septa constrictis, leniter fuligineis, 11-13 ≃ 5,5-6.

Hab. in caulibus siccis Cichorii Intybi prope Troyes Galliæ.

88. **Diplodia Helichrysi** Passer. Diagn. F. N. IV, n. 111. — Peritheciis sparsis, tectis, pusillis, tandem nudatis; sporulis ovatis, castaneo-fuscis, pr. medium septatis et constrictis, loculo altero minore, 12-15 ≃ 7-8. 5910

Hab. in ramis siccis Helichrysi angustifolii in monte Prinzera in agro parmensi Ital. bor.

89. **Diplodia Scorzoneræ** Pass. in Brun. Champ. nouv. VI, p. 2. — Maculis subdiscoideis, amphigenis, brunneis, vage confluentibus, epidermidem rumpentibus; peritheciis punctiformibus, gregariis, vix prominulis; sporulis ellipsoideis, brunneo-castaneis, 1-septatis, non constrictis, loculis ample 1-guttatis, 15-20 ≃ 7-8. 5911

Hab. in foliis languidis Scorroneræ humilis, Pessines pr. Saintes Galliæ.

90. **Diplodia herbarum** Lév. — Syll. III, p. 370. — Var. **Marrubii** Brun. Champ. Saint. p. 339. — Peritheciis sparsis, globosis; sporulis oblongis v. ovoideo-oblongis, 1-septatis, medio constrictis, fuligineis, 22-28 ≃ 12-15. 5912

Hab. in caulibus emortuis Marrubii vulgaris, Saintes Galliæ.

91. **Diplodia Henriquesii** Thüm. M. Univ. n. 2087. — Peritheciis sparsis, sæpe lineari-dispositis, sed semper fere solitariis et haud raro confluentibus, interdum aggregatis, globosis, fere liberis, parvulis, elevatis, nitide atris; sporulis cylindraceis, semper fere rectis, utrinque rotundatis, medio septatis, non constrictis, obscure fuscis v. fumoso-spadiceis, opacis, 20 ≃ 7-8. 5913

Hab. in caulibus aridis Smyrnii Olusatri, Coimbra Lusitaniæ (Moller).

92. **Diplodia Epilobii** Brun. in Rev. Myc. 1886, p. 141. — Peritheciis globulosis, subcompressis, sparsis vel gregariis, sæpe confluentibus, innatis, demum erumpentibus, atris; sporulis oblongis, 1-septatis, medio non constrictis, fuligineis, 22-25 ≃ 12-15. 5914

Hab. in caulibus emortuis Epilobii angustifolii, Saintes Galliæ.

93. **Diplodia Fuchsiæ** Cooke et Hark. in Grevillea XIII, p. 112. — Caulicola; peritheciis subcutaneis, gregariia, globosis, atris, epidermide tectis, numquam erumpentibus; sporulis ellipticis, uniseptatis, nec constrictis, fuscis, 28 ≃ 10. 5915

Hab. in caulibus Fuchsiæ in California (Harkness).

94. **Diplodia beticola** Prill. et Delacr. Bull. Soc. Myc. 1891, p. 25, t. III, f. V. — Peritheciis semiimmersis, rotundis, fuscis, 165 μ. diam., poro 20 μ. circ. lat.; sporulis hyalinis, 1-septatis, medio constrictis, utrinque obtuse attenuatis, 14 ≃ 4. 5916

Hab. in petiolis Betæ vulgaris cultæ, a *Phyllosticta tabifica* enecatæ, Mondoubleau, Loir-et-Cher Galliæ.

III. *In Monocotyledoneis.*

95. **Diplodia discriminanda** Passer. Diagn. F. N. IV, n. 61. — Peritheciis paucis, gregariis v. solitariis, minutis, subglobosis, erumpentibus, atris; sporulis ellipticis, primo flavis, tandem castaneo-fuscis, semper ad medium septatis non v. plus minus constrictis, 15-22 ≃ 8-10. 5917

Hab. in caulibus siccis Geitonoplesii angustifolii, in horto botanico Roma Italiæ.

96. **Diplodia Coryphæ** Cooke in Grevillea XIII, p. 96. — Immersa, erumpens, cuticula rimose longitudinaliterque rupta; peritheciis minimis, atris, tectis; sporulis subglobosis vel ovalibus, non constrictis, uniseptatis, episporio tenui, pallide fuligineo, 14-17 ≃ 10. 5918

Hab. in petiolis Palmarum, Kew Britanniæ.

97. **Diplodia Asparagi** Brun. Champ. Saint. V, p. 5. — Peritheciis sparsis v. gregariis, tectis, dein erumpentibus, globosis, nigris, nitentibus, pertusis; sporulis ovoideis, fuligineis, diu continuis, dein 1-septatis, ad septum non constrictis, 18-20 ≃ 12. 5919

Hab. in caulibus exsiccatis Asparagi officinalis, Saintes Galliæ.

98. **Diplodia Narthecii** Sacc. Bomm. et Rouss. in Bull. Soc. R. Bot. Belg. 1886, p. 180. — Peritheciis sparsis, epidermide velatis, subglobosis prominulis, nigricantibus, papillatis, 160-200 μ. diam.; sporulis brunneis, ellipsoideis, obtusissimis, 1-septatis, medio non constrictis, 9 ≃ 5-6. 5920

Hab. in scapis Narthecii ossifragi, Westmalle Belgii. — *D. Buxi* et *D. pinnarum* affinis.

99. **Diplodia Beckii** Bäuml. Myc. Not. p. 1. — Peritheciis gregariis, semper immersis, globosis, atris; ostiolo papilliformi, epidermidem perforante, 200-250 μ. diam.; sporulis oblongis, medio 1-septatis, non constrictis, rectis v. inæqualibus, utrinque obtuse rotundatis v. parum attenuatis, brunneolis, 10-13 ≃ 4-4,5; basidiis hyalinis, 6-10 ≃ 2. 5921

Hab. in vaginis Phragmitis communis, Pressburg Hun-

gariæ. — Adsunt etiam (sed rarissime) sporulæ 16-20 ≃ 4-5. *D. microsporellæ* valde affinis.

100. **Diplodia nitens** Sacc. Bomm. Rouss. Contr. Myc. Belg. IV, p. 84. 5922
— Peritheciis sparsis, subglobosis v. ovoideis, epidermide atrata et nitida initio tectis, dein erumpentibus, 180-210 μ. diam.; sporulis didymis, elliptico-fusoideis, violaceis dein brunneis, subinde 2-guttatis, 18-22 ≃ 9-11, tunica crassa.

Hab. in culmis Ammophilæ arenariæ, Ostende Belgii.

101. **Diplodia Bambusæ** Ell. et Langl. Journ. Mycol. 1890, p. 37. — 5923
Peritheciis hemisphæricis $^1/_3$-$^1/_2$ mm. diam., papillatis; sporulis ellipsoideis, brunneis, 1-septatis, leniter constrictis, 15-20 ≃ 8-10.

Hab. in culmis emortuis Bambusæ plerumque ad nodos, Louisiana Amer. bor.

102. **Diplodia Frumenti** Ell. et Ev. in Journ. of Myc. 1886, p. 103. 5924
— Peritheciis globosis, subinde ostiolo cylindraceo, crassiusculo præditis, subcæspitosis vel sæpe seriatis, rimis longitudinalibus immersis; sporulis ellipsoideis, brunneis, 1-septatis, 15-18 ≃ 12; basidiis crassiusculis.

Hab. in culmis emortuis Zeæ Maydis in America boreali. — Certe cum *D. Zeæ* non comparanda.

103. **Diplodia culmorum** Pat. Bull. Soc. Myc. 1887, p. 130. — Peri- 5925
theciis longitudinaliter in greges parvos, areola brunnea cinctos dispositis, minutis, globosis, subapplanatis, nigris, primo subepidermicis, dein superficialibus; sporulis ovoideis, elongatis, primo hyalinis, dein rufis, rectis vel subcurvis, medio 1-septatis, strato mucoso fultis.

Hab. in culmis emortuis, Congo Africæ occid.

CHÆTODIPLODIA Sacc., Syll. III, p. 374.

1. **Chætodiplodia anceps** Passer. Diagn. F. N, IV, p. 115. — Peri- 5926
theciis sparsis vel connatis, erumpentibus, basi epidermide cinctis, hyphis dematiaceis, intricatis, plus minus vestitis, subglobosis, ostiolo papillari, atris; contextu celluloso, atro-cyaneo, nucleo albo; sporulis numerosis, stipitatis, diu hyalinis et continuis, tandem fuscis, prope medium septatis, ellipticis vel sæpius cuneatis, non constrictis, 17-25 ≃ 10.

Hab. in ramo sicco Salicis albæ, Parma Ital. bor. — Ad *Botryodiplodiam* vergit.

2. **Chætodiplodia Lecardiana** Sacc., Bomm. et Rouss. Fl. myc. Belg. 5927
II, p. 34. — Peritheciis copiosis, erumpenti-superficialibus, brun-

neo-nigricantibus, globoso-conicis, excepto apice pertuso villosis; sporulis ellipsoideis vel ovoideis, obtusissimis, 1-septatis, hyalinis, 24-25 = 12, mox brunneis 19-22 = 14, crasse tunicatis, ad septum non contractis; basidiis filiformibus, flexuosis.

Hab. in petiolis Vitis Chantini in Africa centr. (in herbario LECARD). — Septum sporulæ ob tunicam crassam ægre conspicuum. Pili perithecii brunnei, septati.

DIPLODIELLA Karst. — Sacc. Syll. III, p. 375.

1. **Diplodiella faginea** Bäumler in Hedw. 1885, pag. 76. — Perithe- 5928
ciis superficialibus, 0,5 mm. diam., atris, carbonaceis; sporulis 18-23 = 8-10, fuscis, uniseptatis, medio parum constrictis, utrinque rotundatis vel subclavatis, deorsum sursumve magis acuminatis.

Hab. in ramis Fagi silvaticæ in Hungaria.

2. **Diplodiella ficina** Passer. Diagn. F. N. IV, n. 114. — Peritheciis 5929
crebre sparsis v. subgregariis, sphæroideis, brunneis, interdum depressis, ostiolo minuto; sporulis parvulis ellipticis, medio septatis, non constrictis, fuscidulis, 6-7,5 = 2,5-3.

Hab. in ramo decorticato Fici Caricæ, Parma Ital. bor.

3. **Diplodiella ulmea** Passer. Diagn. F. N. IV, n. 113. — Peritheciis 5930
e ligno denudato erumpentibus, solitariis v. parce gregariis, globosis, minute papillatis, atris; sporulis ellipticis, ovatis aut elongatis, non vel leniter constrictis, uniseptatis, fuligineis, 15-25 = 8-10.

Hab. in palo Ulmi campestri, Vigheffio prope Parmam Ital. bor.

4. **Diplodiella Lantanæ** Briard in Rev. Myc. 1890, n. 47. — Peri- 5931
theciis sparsis, globosis vel leniter ovoideis, nigris, nitentibus, superficialibus, $^1/_7$-$^1/_8$ mm. diam.; sporulis late ovoideis, obtusis, 1-septatis, ad septum constrictis, fuligineis, pellucidis, 12-13 = 8.

Hab. in ramo decorticato Viburni Lantanæ, Noidan, Côte-d'Or Galliæ (FAUTREY).

5. **Diplodiella Xanthii** Har. et Br. in Rev. Myc. 1890, n. 47. — Pe- 5932
ritheciis innatis, erumpentibus, $^1/_5$-$^1/_4$ mm. diam., contextu parenchymatico; sporulis numerosissimis, ovato-oblongis, 1-septatis, obtusis, olivaceis, ad septum subconstrictis, 9-11 = 4-4,5.

Hab. in caulibus emortuis Xanthii, Clermont-Ferrand Galliæ (HÉRIBAUD).

6. **Diplodiella dubia** Delacr. Bull. Soc. Myc. 1890, p. IX. — Perithe- 5933
ciis subovoideis atris, vertice applanatis, superficialibus, contextu cellulari, poro hysteroideo præditis; sporulis ovoideis vel leniter

limoniformibus 23 × 10, fuscis, diu continuis, guttulatis, tandem obscure 1-septatis, biguttatis.

Hab. in culmo Calami, Tonkin. — Hyphæ adsunt cum perithecis connexæ, atræ, septatæ.

BOTRYODIPLODIA Sacc. Syll. III, p. 377.

1. **Botrydiplodia Mali** Brun. Liste Sphærops. p. 38. — Peritheciis 5934
numerosissimis, gregariis, parvis, stromate corticolo, nigro, $^1/_2$–$^3/_4$ mm. diam., suborbiculari-vel irregulari, ruguloso, tecto dein erumpente immersis; sporulis obovoideis, primo continuis, 1-septatis, 20 × 8, ad septum non vel vix constrictis.

Hab. in cortice emortuo truncorum Mali, Saintes Galliæ.

2. **Botryodiplodia æsculina** Passer. Diagn. F. N. V, n. 38. — Peri- 5935
theciis majusculis cæspitoso-erumpentibus, globosis, papillatis, nigris; contextu celluloso, fusco-violaceo; sporulis ellipticis, septatis non vel vix constrictis, violaceis vel violaceo-fuscis, 20–30 × 10-12.

Hab. in ramo emortuo Æsculi Hippocastani in horto botanico parmensi Ital. bor. — A *Diplodia Æsculi* differt peritheciis gregariis et sporulis majoribus violaceis.

3. **Botryodiplodia Gleditschiæ** Berl. Pug. fung. Fior. p. 23. — Stro- 5936
matibus elongatis, epidermide tectis, erumpentibus, 4- vel pluriloculariibus, majusculis, 2 mm. long., seriatim dispositis, superne ostiolis punctulatis; sporulis ellipsoideis vel oblongis, 1-septatis, non vel vix constrictis, utrinque rotundatis, 18-20 × 8-10, rufofuligineis; basidiis hyalinis sporulam æquantibus.

Hab. in ramis emortuis Gleditschiæ Triacanthi prope Firenze. — Forte eadem ac *Dipl. Gleditschiæ* Pass., sed peritheciа hujus minime ut botryoideo-congesta descripta sunt.

4. **Botryodiplodia varians** Ell. et Langl. Journ. Myc. 1890, p. 37. — 5937
Peritheciis erumpenti-superficialibus, solitariis, sæpius vero in acervulos 2-4 vel pluribus aggregatis, conicis, rugosis, ostiolo obtuse conico levi, vix 0,5 mm. diam.; sporulis ellipsoideis, brunneis, sæpe continuis, subinde 1-septatis, haud constrictis 15-22 × 8-11.

Hab. in ramis emortuis Lagerstrœmiæ, St. Martinsville La. Amer. bor. (Langlois). — A *Dipl. Lagerstrœmiæ* Speg. differt peritheciis haud lenticularibus et duplo majoribus.

5. **Botryodiplodia minor** Berl. et Bres. Micr. Trid. p. 72, t. VI, f. 4, 5938
— Peritheciis hinc inde in acervulos valsiformes collectis, tectis, 6-12 in quoque acervulo, 0,5 mm. diam., collis longiusculis in fasciculum collectis, ostiolis crassis, perforatis; sporulis ovoideo-ob-

longis, 1-septatis, vix constrictis, 10-12 ≃ 4-5, biguttatis, rufo-olivaceis; basidiis sporulam æquantibus, filiformibus.

Hab. in ramulis emortuis Aceris campestris pr. Trento.

6. **Botryodiplodia atra** Berl. et Bres. Micr. Trid. p. 72, t. VI, f. 6. 5939
— Peritheciis gregariis subinde in series juxta fibras dispositis, compressis globoso-conoideis, numquam collapsis, epidermide sporulis sæpe atrata tectis, dein, ea rupta, emergentibus, minusculis, 250–300 μ. diam., nucleo aterrimo grumoso, cultro facile secedente farctis; sporulis ellipsoideis, minutis, numerosissimis, 8-9 ≃ 6, coacervatis atris, 1-septatis, non constrictis, fuligineis; basidiis non visis.

Hab. in ramis emortuis Pistaciæ Terebinthi pr. Trento.

7. **Botryodiplodia acinosa** (Fr.) Cooke in Grev. XVII, p. 59, *Sphæria* 5940
Fr., Syll. II, p. 393. — Sporulæ oblongæ, variæ, 16-20 ≃ 8-10, atro-brunneæ, vix constrictæ. Ad corticem Tiliæ in Vogesis (Mouc. et Nestl. Stirp. n. 769!)

Sect. 4. Hyalodidymæ.

ASCOCHYTA Lib. — Sacc. Syll. III, p. 384.

I. *In Dicotyledoneis lignosis.*

1. **Ascochyta Cassandræ** Peck in 38 Rep. St. Mus. pag. 94. — Ma- 5941
culis orbicularibus v. irregularibus, rufo-brunneis v. griseis et tunc rufo-brunneo marginatis; peritheciis epiphyllis, minutis erumpentibus, nigrescentibus; sporulis oblongo-fusoideis, utrinque acutis, uniseptatis, 10–16 ≃ 3-4, hyalinis.

Hab. in foliis vivis Cassandræ calyculatæ in montibus Adirondack Amer. bor.

2. **Ascochyta Ledi** Rostr. Fung. Groenl. p. 570. — Peritheciis sphæ- 5942
roideo-lenticularibus, nigris, 200–300 μ. diam.; sporulis oblongis, utrinque obtusis, 1-septatis, 12-13 ≃ 3.

Hab. in ramulis Ledi groenlandici in Groenlandia.

3. **Ascochyta Diplodina** Berl. et Bres. Micr. Trid. p. 73, t. VI, f. 7. 5943
— Maculis pallidis irregularibus, subinde confluentibus, margine vix obscuriore; peritheciis in maculis sparsis vel subgregariis, demum collabascendo concavis, epidermide tectis, contextu parenchymatico, fuligineo, distincte laxiusculeque pertusis, 300-350 μ. diam.; sporulis numerosissimis, cylindraceis, ad medium pseudo-uniseptatis, 10-12 ≃ 2,5-3, hyalinis.

Hab. in utraque pagina foliorum emortuorum Hederæ Helicis pr. Trento. — *A. scandenti* et *A. maculanti* affinis.

4. **Ascochyta Calpurniæ** Wint. in Hedw. 1885, I. — Peritheciis in macula albida vel sordide grisea, angulato-rotundata vel irregulari, linea fusco-purpurea, elevata determinataque limitata plerumque epiphylla, rarius etiam hypophylla gregariis, minutissimis, atris, globosis, tenuissime membranaceis, 60-70 μ. diam.; sporulis fusiformi-acicularibus, sæpe inæquilateralibus, utrinque attenuatis, medio uniseptatis, non constrictis, hyalinis, 6-16 ≃ 1-1,5. 5944

Hab. in foliis Calpurniæ silvaticæ prope Somerset-East ad pedem montis Boschberg, Prom. Bonæ Spei (Mac Owan).

5. **Ascochyta rufo-maculans** Berk. — Syll. III, p. 395. — Teste cl. Berlese (Due parass. Vite p. 444), species nascitur quoque in baccis Vitis viniferæ maturescentibus, Vittorio Ital. bor. et ob sporulas rarius 1-septatas et plerumque continuas (24-26 ≃ 7-8) potius generi *Macrophomæ* esset adscribenda, cui *M. reniformis* valde affinis videtur.

6. **Ascochyta Symphoricarpi** Pass. Diagn. F. N. IV, p. 11. — Peritheciis crebre sparsis, minutis, tectis; ostiolo punctiformi, atro, epidermidem leniter sublevante, emerso; sporulis fusiformibus, medio septatis, non constrictis, hyalinis, 12 ≃ 2,5. 5945

Hab. in ramulis vivis Symphoricarpi racemosi, Parma Ital. bor.

7. **Ascochyta arenaria** Lév. Voy. Demid. p. 115, t. V, f. 7. — Hypophylla; peritheciis sparsis, raris, innatis, e macula viridi emergentibus, ostiolis inconspicuis; sporulis linearibus, pellucidis, septatis, sporidiolis globosis. 5946

Hab. in folis Aceris campestris prope Laspi Rossiæ.

8. **Ascochyta Symphoriæ** Br. et Har. in Rev. Myc 1890 Oct. — Peritheciis sparsis, punctiformibus, subepidermicis, brunneis, 0,5 mm. diam.; sporulis ovato-oblongis, obtusiusculis, 1-septatis, hyalinis, ad septum constrictis, 10-11 ≃ 3-4. 5947

Hab. ad ramos Symphoricarpi, Méry-sur-Seine Galliæ.

9. **Ascochyta sambucella** Passer. Diagn. F. N. IV, p. 11. — Peritheciis superficialibus, subgregariis, minutis, globosis, atris, membranaceis; sporulis lanceolatis, medio septatis, non constrictis, hyalinis, 10 ≃ 2,5. 5948

Hab. in ramulo fracido Sambuci nigræ in horto botanico parmensi Ital. bor.

10. **Ascochyta bacilligera** Wint. Cont. Flor. myc. Lus. Ser. VI, p. 17. 5949

— Peritheciis in macula irregulari, angulata, determinata, subtus pallide fuscescente, supra grisea, margine fusco, angusto cincta, usque 10 mm. lata, hypophylla sparsis, lenticularibus, nitide atris, poro pertusis, 100 μ. diam.; sporulis bacilliformibus i. e. tenuissimis, cylindricis, utrinque rotundatis, medio spurie uniseptatis, hyalinis, 7-12 = 1.

Hab. ad folia viva Phillyreæ angustifoliæ, Matta do Bussaco in Lusitania (Moller).

11. **Ascochyta ligustrina** Pass. Fung. Gall. novi in Journ. d'Hist. nat. 1885, n. 4, pag. 55. — Maculis vermiformibus, subochraceis, brunneo-marginatis; peritheciis paucis, sparsis, atris, acutiusculis; sporulis lanceolatis, 1-septatis, ad septum leniter constrictis, olivaceis, 5-7 = 2½. 5950

Hab. in foliis Ligustri vulgaris prope Saintes in Gallia (Brunaud).

12. **Ascochyta Fraxini** Oud. Contr. Mycol. XIII, p. 45, t. 8, f. 26. — Peritheciis infra fasciculos fibrarum libri occultatis, itaque ligni superficie sparsis, parvis, ¼ mm. diam., teneris, membranaceis, depresso-globosis vel latere compressis, semitranslucidis, pallidis, centro tandem ostiolo minuto apertis; sporulis numerosissimis, acervatim olivaceis, solitariis dilutissime chlorinis, fusoideis vel fusoideo-clavatis, utrinque rotundatis vel parum curvatis, nonnumquam inæquilateralibus, 11-14 = 2,5, ad septum non constrictis loculo altero interdum denuo diviso. 5951

Hab. in ramis Fraxini excelsioris, sociâ *Phomâ divergente*. Zorgvliad prope Haye Belgii (Destrée). — « An potius *Diplodinæ* species? »

13. **Ascochyta fraxinicola** Brun. Miscell. mycol. p. 17. — Maculis minutissimis, epidermidem leniter elevantibus, circularibus v. oblongis, brunneis, centro disciformi, dein subdepresso, albido; peritheciis nigris, minutissimis, parum numerosis, sparsis, tectis; sporulis ellipsoideis, fusoideis v. ovato-elongatis, hyalinis, 1-septatis ad septum non vel vix constrictis, 15-18 = 5-6. 5952

Hab. in ramis junioribus exsiccatis Fraxini excelsioris, Clermont-Ferrand Galliæ.

14. **Ascochyta Fremontiæ** Hark. Fungi Pacif. V, p. 439. — Peritheciis hypophyllis, sparsis, minutis; sporulis pallide brunneis, subcylindraceis, utrinque leniter attenuatis, flexuosis, 1-septatis, ob endochromatis divisionem spurie 3-septatis, 30-40 = 6-12. 5953

Hab. in foliis viventibus Fremontiæ californicæ, Tehachapi Amer. bor.

15. **Ascochyta Camelliæ** Pass. in Brun. Champ. Saint. V, p. 6. — Maculis oblongis vel irregularibus, latissimis, griseo-albidis; peritheciis membranaceis, contextu brunneo-parenchymatico; sporulis olivaceis, 1-septatis, 5-7,5 × 2,5-3. 5954

Hab. in foliis Camelliæ japonicæ Rochefort Galliæ.

16. **Ascochyta minutissima** Pass. Rev. myc. 1887, p. 145. — Peritheciis sparsis, hypodermicis, punctiformibus, atris, membranaceis; ostiolo acutiusculo, emerso: contextu parenchymatico, pallide fuligineo; sporulis innumeris, subfusoideis, utrinque acutis, medio septatis, non constrictis, acervatim visis pallide olivaceis, singulis hyalinis, 7,5 × 3,5-4. 5955

Hab. in ramulis tenuioribus aridis Camelliæ in frigidariis, Parma Ital. bor.

17. **Ascochyta heterophragmia** Passer. F. N. IV, p. 11. — Maculis exaridis, albicantibus, fusco marginatis; peritheciis sparsis, punctiformibus, ostiolo imperspicuo, atris; contextu celluloso, e luteo fuscidulo; sporulis innumeris, lanceolatis v. elongatis, 10-17,5 × 2,5-3, medio septatis, interdum e longioribus nonnullis triseptatis, acervatim visis melleis, singulis hyalinis. 5956

Hab. in foliis languidis Camelliæ japonicæ in horto botanico parmensi Ital. bor. — Ab *A. minutissima* situ et sporulis grandioribus distinguenda.

18. **Ascochyta apiospora** Cooke et Mass. in Grev. XV, p. 98. — Maculis epiphyllis, orbiculari-difformibus, fuscis, zona purpurea cinctis; peritheciis minutis, innatis, ostiolo parvulo pertusis; sporulis piriformibus, inæqualiter didymis, hyalino-fuscis, loculo superiore subgloboso, amplo, 12 × 12, loculo inferiore minuto, papilliformi. 5957

Hab. in foliis Myrti, Johnstone River Australiæ (Bailey).

19. **Ascochyta Mespili** Pass. in litt. Brunaud in Rev. Myc. 1886, p. 141. — Maculis primo brunneis demum centro griseis v. brunneo-griseis, irregularibus, sæpius marginalibus; peritheciis innatis dein erumpentibus, globulosis, nigris; sporulis ellipsoideis, 1-septatis, medio non vel vix constrictis, pallide olivaceis, 10 × 4. 5958

Hab. in foliis Mespili germanicæ, Saintes Galliæ.

20. **Ascochyta Balansæ** Speg. Guar. I, p. 146 — Maculis amphigenis, orbicularibus, 3-5 mm. lat., albis, pellucidis, determinatis, zona nulla vel strictissima obscuraque cinctis, sparsis; peritheciis paucis, lenticularibus, 70-80 μ. diam., epiphyllis, atris, tenui-mem- 5959

branaceis; ostiolo parvulo; contextu minute parenchymatico, fusco-fuligineo; sporulis elliptico-elongatis, rectis vel curvulis, utrinque obtuse rotundatis v. subtruncatis, 6-12 = 2-2,5 ad septum non constrictis, hyalinis.

Hab. ad folia viva Myrtaceæ (an Terebinthaceæ?) sp. cujusdam in silvis pr. Guarapi Brasiliæ.

21. **Ascochyta Caricæ** Pat. Bull. Soc. Myc. 1891, p. 178. — Maculis linea nigra parum distincta cinctis, ovatis, 2-3 cm. long., 5-8 mm. lat., cinerescentibus; perithecciis numerosis, sparsis, minutis, 100-150 μ. lat., subglobosis, erumpentibus, apice poro pertusis, contextu nigro, celluloso, intus nigris; sporulis hyalinis, ovoideis, 1-septatis, subconstrictis, 2-guttatis, 12 = 4; basidiis linearibus. 5960

Hab. in petiolis Caricæ Papayæ, Quito Amer. æquat.

22. **Ascochyta atro-punctata** Wint. in Hedw. 1885, I. — Perithecciis gregariis, rarius sparsis, sæpe circinantibus, in maculis rotundatis indeterminatis, sæpe confluentibus, lutescentibus, amphigenis, immersis, depresse globosis, atris, demum late apertis, cupuliformibus, 160-180 μ. diam.; sporulis oblongo-fusiformibus, curvatis, bicellularibus, cellula superiore plerumque parum crassiore, inferiore deorsum attenuata, hyalinis, 19-24 = 3-4. 5961

Hab. in foliis Osteospermi moniliferi in monte Tabulari, Promont. Bonæ Spei (Mac Owan).

23. **Ascochyta Evonymi** Passer. Diagn. F. N. IV, p. 11. — Maculis amplis, exaridis, candicantibus, fusco-cinctis; perithecciis epiphyllis, sparsis, punctiformibus, atris; ostiolo acuto erumpente; sporulis lanceolatis, medio septatis, non constrictis, hyalinis, 5-6 = 2-2,5. 5962

Hab. in foliis vivis Evonymi japonici, Sassari Sardiniæ (doct. Binna).

24. **Ascochyta guaranitica** Speg. F. Guar. II, n. 170. — Perithecciis ellipticо-lenticularibus, minutis, 60-70 μ. diam., epidermide velatis, dense aggregatis, maculas cinerescentes totum hypophyllum fere occupantes efficientibus, atris, glabris, tenui-membranaceis, parenchymaticis, ostiolo impresso pertusis; sporulis cylindraceis, utrinque obtusis 18-20 = 2,5, medio 1-septatis, non constrictis, rectis hyalinis. 5963

Hab. ad folia dejecta putrescentia Sapotaceæ cujusdam in silvis pr. Guarapi Brasiliæ.

25. **Ascochyta brunnea** Cooke et Mass. in Grev. XV, p. 98. — Maculis amphigenis, orbiculari-difformibus, pallide fuscis ochraceisve, linea obscuriore elevata cinctis; perithecciis minutis, punctiformi- 5964

bus, atris, innatis, demum emergentibus; sporulis arcte ellipticis, uniseptatis, hyalinis, 12 ≈ 4; basidiis æqualibus.

Hab. in foliis arboris ignotæ (Sapindaceæ?), Brisbane Australiæ (Bailey).

26. **Ascochyta Populi** Delacr. Bull. Soc. Myc. 1890, p. 141. — Peritheciis globosis v. subapplanatis, fusco-flavescentibus, 110-130 ≈ 70-90, poro pertusis; sporulis hyalinis v. chlorinis, acutiusculis, 1-septatis medioque non constrictis v. interdum 2-3-septatis. 5965

Hab. in ramulis Populi pyramidalis, sociâ *Didymosphæriâ populinâ*, Mondoubleau, Loir-et-Cher Galliæ. — *D. Salicis* subaffinis.

27. **Ascochyta moricola** Berl. Add. Syll. n. 4669. — Peritheciis minutis, 1/5 mm. diam., globosis globosove-conoideis, in ostiolum breve, subobtusum desinentibus, tectis; sporulis fusoideis, utrinque acutis, 1-septatis ad septum non vel vix constrictis, 10 ≈ 3, pallidissime luteis. 5966

Hab. in ramulis emortuis Mori albæ, Fiumicello Ital. bor., socio *Coniothyrio fuscidulo*. — Ab omnibus speciebus ramicolis facile distinguenda.

28. **Ascochyta Vitellinæ** Pass. Fung. Gall. novi in Jour. d'Hist. nat. 1885, n. 4, p. 16. — Peritheciis hypopyllis, subgregariis, velatis, subochraceis; sporulis fusiformibus, apicibus acutis, prope medium septatis, hyalinis, 12-15 ≈ 4-4 1/2. 5967

Hab. in foliis Salicis vitellinæ prope Saintes in Gallia (Brunaud).

29. **Ascochyta salicicola** Pass. Fung. Gall. novi in Jour. d'Hist. nat. 1885, n. 4, p 16. — Maculis epiphyllis, rubiginoso-fuscis, angulosis; peritheciis exiguis, solitariis vel subgregariis; sporulis lanceolatis, hyalinis, medio septatis, 8-10 ≈ 2 1/2. 5968

Hab. in foliis Salicis albæ prope Saintes, Bussac, le Port d'Envaux etc. in Gallia (Brunaud).

II. *In Dicotyledoneis herbaceis.*

30. **Ascochyta Primulæ** Trail Scot. Nat. 1887, p. 88 et Grev. XV, p. 108. — Epiphylla; maculis ut in *Phyllosticta primulicola;* peritheciis in maculis sparsis, depresso-globosis, 100-110 μ. diam., pallide brunneis, papillatis; sporulis 1-septatis; hyalinis, cylindraceis, obtusis, 5-6 ≈ 2-2,5. 5969

Hab. in foliis Primulæ vulgaris, Dunottar Scotiæ.

31. **Ascochyta decipiens** Passer. Diagn. Fung. N. V, n. 39. — Pe- 5970

ritheciis in matrice immutata sparsis vel laxe gregariis, minutis, epidermidem pustuliformiter sublevantibus, fuscis, contextu membranaceo-celluloso, flavo-fusco; sporulis cylindricis, utrinque obtusis, hyalinis, endoplasmate varie guttulato et obscure transversim diviso, prope medium septatis, non constrictis 12 × 3, raro 18-20 × 3-4; basidiis nón visis.

Hab. in caule et ramis Antirrhini majoris ad mœnia Parmæ, Ital. bor.

32. **Ascochyta Silenes** Ell. et Ev. Journ. Myc. 1889, p. 148. — Maculis pallide flavescentibus, demum indefinitis et pallidioribus; peritheciis erumpentibus, sparsis, discoideis, 120-150 μ. diam., supra late pertusis; sporulis oblongis, hyalinis, 2-3-guttatis, utrinque rotundatis, 10-14 × 2,5-3. 5971

Hab. in foliis et caulibus Silenes antirrhinæ, Racine, Wisconsin et Montana Amer. bor.

33. **Ascochyta Dianthi** (A. et S.) Lib. Crypt. II, n. 158 (1832). — Syll. III, p. 398. — Amphigena; maculis indeterminatis, pallidis; peritheciis minutis, fuscis, poro apertis, cirris albis; sporulis oblongo-fusoideis vel clavulato fusoideis utrinque rotundato-apiculatis constricto-1-septatis, hyalinis, 14-16 × 3-4,5. 5972

Hab. in foliis languescentibus Dianthi barbati, sociâ *Pucciniâ Arenariæ* in Arduennis. — Teste cl. Oud. (Obser. Sphærops. Dianth. p. 97 cum icone), huc spectant quoque *Phyllosticta Dianthi* West. et *Dinemasporium Dianthi* Oud., et species nascitur quoque in Belgio et Hollandia.

34. **Ascochyta Vitalbæ** Br. et Har. Rev. Myc. 1891, p. 17. — Peritheciis minutis, 1/6-1/5 mm. diam., innatis, subepidermicis, erumpentibus, nigris, punctiformibus, numerosis, plus minus gregariis; sporulis oblongo-fusoideis, obtusiusculis, 1-septatis, non v. vix constrictis, hyalinis, 10-12 × 4. 5973

Hab. in ramulis Clematidis Vitalbæ, Droupt-St.-Basles, Aube Galliæ (P. Hariot).

35. **Ascochyta? infuscans** Ell. et Ev. Journ. Myc. 1889, p. 148. — Maculis magnis, vix zonato-definitis; peritheciis, immersis, folii superficiem pustulatim elevantibus, brunneis; sporulis oblongis, hyalinis, obtusis, medio angustatis, grosse 2-guttatis, 10-15 × 4-6, dein 1-septatis? 5974

Hab. in foliis Ranunculi abortivi, London Canada Amer. bor. (J. Dearness).

36. **Ascochyta Papaveris** Oudem. Contr. à la Flore myc. de Nowaja 5975

Semlja p. 12, t. I, f. 10. — Peritheciis in pagina superiore (an etiam inferiore?) foliorum nigrescente sparsis, nigris, parvis, 200 μ. diam., membranaceis, e cellulis parenchymaticis, satis amplis, fuliginei coloris contextis; sporulis late fusoideis vel subellipsoideis, hyalinis, medio septatis, 9 × 3½, gelatina distentis, maxima copia e perithecio erumpentibus.

Hab. in foliis Papaveris nudicaulis in insula Nowaja Semlja.

37. **Ascochyta althæina** Sacc. et Bizz. Syll. III, p. 399 — var. **brunneo-cincta** Brunaud in Rev. Myc. 1886, p. 141. — Maculis brunneo-marginatis; sporulis ellipsoideo-oblongis, leniter 1-septatis, medio vix constrictis, 30 × 3,5. 5976

Hab. in foliis languescentibus Althææ officinalis, Chanier Galliæ.

38. **Ascochyta parasitica** Fautr. Rev. Myc. 1891, p. 79. — Maculis albidis, epiphyllis; sporulis 6-9 × 3,5-4. 2977

Hab. in foliis Althææ roseæ, Noidan, Côte-d'Or Galliæ (F. Fautrey). — Adsunt in iisdem maculis *Sphærella parasitica, Phyllosticta destructiva* et *Septoria parasitica.*

39. **Ascochyta colorata** Peck in 38 Rep. St. Mus. pag. 94, tab. 2, fig. 9-10. — Maculis indefinitis, sæpe confluentibus, rufis centro brunneis, in superficie inferiore pallidioribus; peritheciis minutis, 100–120 μ. diam., atris; sporulis oblongis sæpe utrinque acutis, rectis vel curvulis, obscure uniseptatis, medio leniter constrictis. 17-25 × 7-8, hyalinis. 5978

Hab. in foliis vivis Fragariæ virginianæ, West Albany Amer. borealis. — Ab *A. Fragariæ* colore macularum et sporulis differt.

40. **Ascochyta Drabæ** Oudem. Contr. à la Flore myc. de Nowaja Semlja p. 12, t. I, f. 11. — Peritheciis in foliorum laminis petiolisque innatis, sparsis, membranaceis, atris, subsphæricis, poro centrali, denique supra epidermidem prominentibus, 100-130 μ. diam.; sporulis oblongis, 10 × 2½, utrinque obtusis, medio septatis ibique levissime contractis, hyalinis. 5979

Hab. in foliis Drabæ alpinæ in insula Nowaja Semlja.

41. **Ascochyta Thlaspeos** Rich. Cat. Champ. Marn. n. 1687. — Sporulis 14 μ. long. 5980

Hab. in caule et foliis Thlaspeos perfoliati in incultis St.-Amand et Lisse Galliæ.

42. **Ascochyta Sisymbrii** Ell. et Kell. Journ. Myc. 1889, p. 142. — 5981

Maculis nullis; peritheciis amphigenis et petiolicolis, nigris, innatis, globoso-depressis, 200-235 μ. diam., 100-195 μ. alt., ostiolo circ. 20-25 μ. diam. pertusis; sporulis vermiformi-cylindraceis, subhyalinis, guttatis, plerumque 1-septatis, 18-45 = 3,5-6, plerumque 25-38 = 4-5.

Hab. in foliis et petiolis Sisymbrii canescentis, Manhattan Kansas Amer. bor. (KELLERMAN et SWINGLE).

43. **Ascochyta Lathyri** Trail Scot. Nat. 1887, p. 87 et Grev. XV, p. 109. — Maculis obsolete definitis, totum folium fere occupantibus; peritheciis numerosis, subglobosis, depressis, 50-100 μ. diam.; sporulis 1-septatis, hyalinis, cylindraceis, utrinque obtusis 8-10 = 2,5. 5982

Hab. in foliis Lathyri silvestris, St. Cyrus prope Montrose Scotiæ.

44. **Ascochyta vicicola** Sacc. *Ascochyta Viciæ* Trail Scot. Nat. 1887, p. 87 et Grev. XV, p. 109. — Maculis pallidis, languidis, rufo-marginatis, irregulariter rotundatis; peritheciis in maculis sparsis; sporulis subcylindraceis, obtusis sæpe leniter incurvis, granuloso-farctis, 1-septatis, 13-16 = 2,5-3, flavidis. 5983

Hab. in leguminibus et foliis Viciæ sepium prope Dunottar Scotiæ. — « Forte vix vel non diversa a sequente ».

45. **Ascochyta Viciæ** Lib. Crypt. III, n. 356 (1837), Sacc. Funghi Ardenne n. 164. — Epiphylla; maculis subrotundis, rubellis, margine prominulo atro-sanguineo circumscriptis; peritheciis minutis aggregatis, poro apertis, nigris 90-100 μ. diam.; cirris albis; sporulis ovato-oblongis, utrinque obtusis, 1-septatis, leniter constrictis, 12-15 = 4-5, hyalinis. 5984

Hab. ad folia Viciæ sepium in Arduennis. — *Asc. Orobi* Sacc. ab hac vix differt. An huc quoque *Phyllosticta Viciæ* Cooke?

46. **Ascochyta Boltshauseri** Sacc. in Zeitschr. f. Pflanzenkr. 1891, p. 136, t. III. — Foliicola; maculis subcircularibus, ochraceo-brunneis, distinctius epiphyllis, margine subconcoloribus; peritheciis innatis, parcis, globulosis, 100-150 μ. diam., tenui-membranaceis, brunneis, ostiolo rotundo pertusis; sporulis tereti-oblongis, utrinque rotundatis, constricto 1-septatis, non raro 2-septatis, varie guttulatis, hyalinis, 22-28 = 7-8. 5985

Hab. in foliis Phaseoli vulgaris, cui noxia, in Helvetia (H. BOLTSHAUSER). — Ab *Ascoc. Pisi* et *A. Phaseolorum* mox differt sporulis conspicue majoribus et non raro 2-septatis. — *Ascoc. Pisi* f. *foliicola* Sacc. et March. Reliq. Westend. pag. 9 (sporulis 16-18 = 5-6) est potius var. præsentis speciei.

47. **Ascochyta Oxytropidis** Schroet. Pilz. Labrad. p. 19. — Maculis 5986
nullis; peritheciis irregulariter sparsis, circ. 250 μ. lat., nigris; sporulis elongato-ellipsoideis, fere bacillaribus, sæpe arcuatis, utrinque rotundatis, 9-11 = 2,5-3, medio septatis, hyalinis.

Hab. in petiolis foliorum emortuorum Oxytropidis uralensis, Hebron, Labrador Amer. bor.

48. **Ascochyta Sempervivi** Fautr. Rev. Myc. 1891, p. 131. — Spo- 5987
rulis oblongis, utrinque obtusiusculis, septatis, 10 = 2, hyalinis.

Hab. in caulibus siccis Sempervivi tectorum, Saint-Aubin prope Bernay, Eure Galliæ.

49. **Ascochyta Cucumeris** Fautr. et Roum. Rev. Myc. 1891, p. 79. 5988
— Maculis orbicularibus, dein irregularibus, griseis, 1 cm. diam., flavido-cinctis; peritheciis majusculis, sparsis, papillatis, distincte pertusis; sporulis numerosissimis, hyalinis, cylindraceis, 1-septatis, 8-11 = 3.

Hab. in foliis Cucumeris sativi, Noidan, Côte-d'Or Galliæ (F. Fautrey).

50. **Ascochyta Solani** Oud. Microm. I, p. 6. — Peritheciis infra pla- 5989
gas epidermidis nigrefactas nidulantibus, globoso-depressis fuligineis, quodammodo asperis, 90-180 μ. lat., medio poro simplici pertusis, mycelii ramis fuligineis insidentibus; contextu distincte parenchymatico; sporulis ellipsoideis, initio mucilagine quasi conglobatis, postremo liberis, 1-septatis, 14 = 7, chlorinis.

Hab. in caulibus exsiccatis Solani tuberosi, sociis *Phoma* sp. et *Fusario diplosporo*, Scheveningen Nederlandiæ.

51. **Ascochyta Lycopersici** Brun. Champ. Saint. 1887, pag. 430. — 5990
Maculis rufis v. brunneolis, magnis, suborbicularibus vel irregularibus; peritheciis sparsis, minutis, nigris; sporulis oblongis, 1-septatis, medio constrictis, 8-10 = 2,5, hyalinis.

Hab. in foliis languidis Solani Lycopersici, Pessines pr. Saintes Galliæ.

52. **Ascochyta socia** Pass Nebbia Pomid. p. 2. — Peritheciis spar- 5991
sis, tectis, lenticularibus, ostiolo subacuto; contextu fusco, parenchymatico, crassiusculo; sporulis elongato-ellipticis, medio septatis, non constrictis, hyalinis, 8-10 = 2,5-3.

Hab. ad folia languida Lycopersici esculenti, *Septoria* affecti (an semper?), Parma Ital. bor.

53. **Ascochyta microspora** Trail Scot. Nat. 1887, p. 87 et Grev. XV, 5992
p. 108. — Epiphylla; maculis suborbicularibus, nigris vel atrobrunneis; peritheciis dense gregariis, globosis, 70 μ. diam., sub

lente pallide brunneis; sporulis subcylindraceis, utrinque rotundatis, 1-septatis, rectis vel curvis, 5–7 ≃ 1,5–2, hyalinis.

Hab. in foliis Arctii Lappæ, St. Grus, et Petasitis (sporulis 6–8 ≃ 1,5–2), Aberdeen Scotiæ.

54. **Ascochyta Pyrethri** Brun. et Malbr. Suppl. Sphæroid. p. 3. — 5993
Peritheciis globoso-conicis, sparsis vel lineari-seriatis, erumpentibus, nigris; sporulis numerosis, ovoideis, ellipsoideis vel ellipsoideo-elongatis, utrinque obtusis, rectis vel leniter incurvis, ad septum non constrictis, subhyalinis.

Hab. in caulibus emortuis Pyrethri sinensis, Saintes Galliæ.

55. **Ascochyta Treleasei** Berl. et Vogl. Add. Syll. n. 4439, *Ascochyta* spec. Treleas. Par. Fungi of Wiscos. p. 17. — Maculis brunneis, orbicularibus, circiter 3 mm. diam.; peritheciis brunneis, 100–120 μ. diam., vix ad ostiolum carbonaceis; sporulis hyalinis, ovoideis, oblongis vel reniformibus, sæpe medio constrictis, 7–14 ≃ 3–5, 2-4-guttulatis, dein bilocularibus. 5994

Hab. in foliis Silphii integrifolii et Veronicæ noveboracensis, Stoughton, La Crosse, Pammel Amer. bor.

56. **Ascochyta Lactucæ** Rost. in Thuem. M. U. n. 2095. — Sporulis 5995
cylindraceis, tenuissimis, continuis, hyalinis, minutis.

Hab. ad folia et caules vivos Lactucæ sativæ, Skarup in insul. Fionia Daniæ (E. Rostrup). — Secundum de Thümen loc. cit. est verisimiliter *Phyllostictæ* spec.

57. **Ascochyta Thaspii** Ell. et Ev. Journ. Myc. 1889, pag. 148. — 5996
Maculis amphigenis, suborbicularibus, sordide brunneis, definite et anguste flavo-marginatis, circ. 1,5 cm. diam.; peritheciis innatis, pallidis, 100–200 μ. diam., immersis, vix perspicuis; sporulis cylindraceis, 3-septatis, 3-4-guttatis, 25–30 ≃ 6–8, utrinque obtuse rotundatis.

Hab. in foliis Thaspii barbinodis, London Canada Amer. bor. (J. Dearness).

58. **Ascochyta Parietariæ** Roum. et Fautr. Rev. Myc. 1891, p. 79. 5997
— Maculis nigris, circularibus, irregularibus, sæpe confluentibus, folium perforantibus; peritheciis minutissimis, astomis, immersis; sporulis hyalinis, oblongis, dein 1-septatis, 6–8 ≃ 3.

Hab. in foliis Parietariæ officinalis, Beaune, Côte-d'Or Galliæ.

59. **Ascochyta nebulosa** S. et B. in Sacc. Myc. Sibir. p. 22, f. 28. 5998
— Peritheciis macula fusca insidentibus, gregariis epidermide te-

ctis, minutis, 200-250 μ. diam., membranaceis, poro pertusis, globoso-conoideis; sporulis ellipsoideo-oblongis, utrinque latiuscule rotundatis et fere breviter cylindraceis, ad medium uniseptatis, sæpe parum constrictis, pallidissime flaveolis, in massa saturatioribus, 16-18 = 5-6, primo guttulatis.

Hab. in caulibus Chenopodii sp. cujusdam in campis pr. pag. Kultchek Sibiriæ (MARTIANOFF).

60. **Ascochyta beticola** Prill. et Delacr. Bull. Soc. Myc. 1891, p. 25, t. III, f. V. — Peritheciis semiimmersis, rotundis, fuscis, 165 μ. diam., poro 20 μ. lat. circ.; sporulis hyalinis, 1-septatis, medio constrictis, utrinque obtuse attenuatis, 14 = 4. 5999

Hab. in petiolis Betæ vulgaris cultæ a *Phyllosticta tabifica* enecatis, Mondoubleau, Loir-et-Cher Galliæ. — *Ascochytæ Betæ* valde affinis.

61. **Ascochyta Oxybaphi** Trelease in Journ. of Myc. I, p. 14. — Maculis atro-brunneis, rotundis, 1-2 mm. diam.; peritheciis in pagina superiore foliorum, minutis, brunneis, carbonaceis circa ostiolum; sporulis 2-cellularibus, 10-17 = 4, quandoque medio constrictis, hyalinis. 6000

Hab. in foliis Oxybaphi nyctaginei in Amer. bor.

62. **Ascochyta Betæ** Prill. et Delacr. Bull. Soc. Myc. 1891, p. 24. t. III, f. IV. — Peritheciis fusco-olivaceis, rotundis, 120-130 μ. lat., poro papillato, 15 μ. lat. præditis; sporulis hyalinis, primum continuis, ovatis, granulatis, dein 1-septatis, ovato-cylindraceis, medio non constrictis, 9-12 = 2,5-3. 6001

Hab. in petiolis Betæ vulgaris cultæ a *Phyllosticta tabificata* enecatis, Mondoubleau, Loir-et-Cher Galliæ.

63. **Ascochyta Fagopiri** Thüm. et Boll. Fung. lit. austr. in Soc. adriat. Sc. Nat. 1885, p. 13, n. 443. — Peritheciis minutis, sparsis, sine macula distincta, semiimmersis, subglobosis, atris; sporulis ellipsoideis, bicellularibus, medio constrictulis, utrinque abbreviato-rotundatis, nucleo magno achroo in quaque cellula 8,5-10 = 3-4,5, hyalinis. 6002

Hab. in caulibus aridis Fagopiri esculenti, Goritia.

64. **Ascochyta contubernalis** Oud. Contr. myc. Pays bas XII, p. 29. — Peritheciis punctiformibus, valde micantibus, sporulas per porum apicalem in filum longum, album, flexuosum emittentibus; sporulis oblongis, utrinque rotundatis, medio 1-septatis et constrictis, 14 = 4,5, hyalinis. 6003

Hab ad folia Rumicis Acetosæ in centro pulvinorum Uro-

mycetis Acetosæ, Apeldoorn Nederlandiæ. — « Verisimiliter *Darluca Filum* ».

III. *In Monocotyledoneis.*

65. **Ascochyta Iridis** Oud. Contr. Mycol. XIII, p. 46, t. 8, f. 27. — 6004
Peritheciis numerosis, minimis, maculicolis, infra epidermidem occultatis eamque perforantibus; sporulis numerosissimis, cylindraceis, hyalinis, 1-septatis, medio parum constrictis, utrinque rotundatis, 15–18 ≃ 4.

Hab. in foliis Iridis Pseudacori, Bois de la Haye Nederlandiæ (Destrée).

66. **Ascochyta Alismatis** Ell. et Ev. Journ. Myc. 1889, p. 148. — 6005
Maculis amphigenis, rotundis, parvis, 1-2 mm. lat., sordide brunneis, centro albidis, vix flavido-marginatis; peritheciis innatis, pallidis, 80-100 μ. lat., late pertusis; sporulis oblongo-cylindraceis, 12-16 ≃ 2,5-3, biguttatis, dein 1-septatis.

Hab. in foliis Alismatis Plantaginis, London Canada Amer. bor. (J. Dearness).

67. **Ascochyta decipiens** Trail Trans. Crypt. Scot. 1889, pag. 44. — 6006
Peritheciis innatis, depressis, sphæricis, circ. 120 μ. diam., tenuibus, atro-brunneis; sporulis copiosis, ellipsoideis, non constrictis, 9-11 ≃ 2,5-3,5, hyalinis, medio tenuissime 1-septatis.

Hab. in culmis Heleocharidis, Scotia occident.

68. **Ascochyta lacustris** Passer. Diagn. F. N. IV, p. 12. — Peritheciis crebre sparsis vel subgregariis, punctiformibus, subcutaneo-erumpentibus, membranaceis, nigris; sporulis ellipticis, medio septatis, non vel vix constrictis, 5-8 ≃ 2,5-3, acervatim visis fumosis, singulatim hyalinis. 6007

Hab. in caulibus fracidis Scirpi lacustris, Roma Italiæ.

69. **Ascochyta? Rhynchosporæ** (Pat.) Berl. et Vogl. Add. Syll. n. 4443, 6008
Phoma Rhynchosporæ Pat. in Rev. Myc. 1886, p. 83. — Peritheciis sparsis, punctiformibus, globosis, nigris, mycelio radiante, brunneo cinctis; sporulis ovoideis, hyalinis, 5 ≃ 2.

Hab. in Rhynchospora japonica, Klousiou Japon. — Sporulæ a cl. Pat. ut 1-septatæ non describuntur, hinc videtur *Phoma* genuina, nec *Ascochyta* ut habent cl. Berl. et Vogl. l. c.

70. **Ascochyta Spartinæ** Trelease in Journ. of Myc. I, p. 14 et Par. 6009
fung. of Viscos. p. 17. — Maculis rotundis, pallide luteis; sporulis in massam carneo-coloratam exsilientibus, hyalinis, rectis vel

vix curvatis, sæpe utrinque acuminatis, 35 ≃ 3, obscure biseptatis vel demum 2-3-septatis.

Hab. in foliis Spartinæ cynosuroidis, Madison Amer. bor. — Verisimiliter inter species *Septoriæ* in *Monocotyledoneis* parasiticas inquirenda.

71. **Ascochyta graminicola** Sacc. Syll. III, p. 407 — var. **Brachypodii** Trail Scot. Nat. 1887, p. 88 et Grev. XV, p. 109. — Peritheciis non confertis; sporulis subincurvis, 15-17 ≃ 5, leniter fusoideis, utrinque obtusis. 6010

Hab. in foliis Brachypodii prope Dunottar Scotiæ. — Var. **leptospora** Trail Scot. Nat. 1887, p. 88 et Grev. XV, pag. 109: varietati *Holci* Sacc. affinis sed sporulis paullo minoribus, 12-14 ≃ 2,5-3, eguttatis. In foliis emortuis Agropyri repentis et Psammæ arenariæ, Aberdeen Scotiæ. — Var. **Cœruleæ** Br. et Har. Rev. Myc. 1891, p. 17: peritheciis innatis, nigris, punctiformibus vel oblongis, forma varia, depressis vel poro lato pertusis; sporulis cylindraceo-fusoideis, utrinque in appendicem crassam et brevem, paullo perspicuam productis, 1-septatis, hyalinis, 16-22 ≃ 3,5-4,5. In culmis siccis Moliniæ cœruleæ, Droupt, St.-Basles (Aube) Galliæ (P. Hariot).

72. **Ascochyta Calamagrostidis** Brun. Mat. Myc. Saint. p. 25. — Peritheciis gregariis, minutissimis, convexiusculis, nigris; sporulis oblongo-elongatis, utrinque rotundatis, 4-guttatis, interdum medio constrictis, hyalinis, 14-15 ≃ 2,5-3. 6011

Hab. in caulibus Calamagrostidis, Saint-Palais-sur-Mer pr. Saintes Galliæ. — *A. Oryzæ* affinis.

ROBILLARDA Sacc. Syll. III, p. 407.

1. **Robillarda Vitis** Prill. et Delacr. in Bull. Soc. Myc. 1889, p. 124. — Maculis subcircularibus, margine læte rufescentibus; peritheciis immersis, fusco-badiis; sporulis fusoideis, chlorinis, demum leviter fuscescentibus, 10-11 ≃ 4, apice setulas ternas, 8-15 ≃ 1, hyalinas gerentibus. 6012

Hab. in foliis Vitis viniferæ, Margaux, Gironde Galliæ.

2. **Robillarda? macropoda** Speg. F. Fueg. n. 419. — Maculis amphigenis, albescentibus, determinatis, 5-8 mm. diam.; perithecia circinantibus, gregariis, lenticularibus, irregulariter dehiscentibus, 80-100 μ. diam.; sporulis cylindraceis, hyalinis, continuis, 20 ≃ 2, apice trifidis v. setulis 3 divaricatis, 20 ≃ 1 præditis, longe stipitatis; basidiis simplicibus, 30-50 ≃ 1. 6013

Hab. ad folia viva Myrtaceæ cujusdam in dumetis prope Apiahy Brasiliæ.

3. **Robillarda discosioides** Sacc. et Berl. Myc. Sibir. p. 22, f. 29. — 6014
Peritheciis sparsis, epidermide tectis, valde complanatis, ostiolo minuto, $^1/_2$ mm. diam., circularibus, atris; contextu minute parenchymatico fuligineo; sporulis ovoideo-fusoideis, sursum valde attenuatis et in setam acutam longam desinentibus, ad medium v. prope apicem uniseptatis, non constrictis, hyalinis, 14 ≃ 3-4 (sine seta); basidiis brevioribus suffultis; setis 16-20 ≃ 1.

Hab. in caulibus emortuis Polygoni polymorphi in pratis pr. Meticowo Sibiriæ (Martianoff).

ACTINONEMA Fr. — Syll. III, p. 408.

1. **Actinonema Ulmi** Allesch. Bot. Centr. 1890, II, p. 44. — Maculis 6015
primo flavidis, dein e centro brunneolis, irregularibus; fibrillis tenuissimis, retiformi-expansis, epidermide brunnea tectis; peritheciis (?) sub epidermide parum elevata tectis, magnis, lenticularibus; sporulis non visis.

Hab. in foliis vivis Ulmi campestris, Isarthal supra Maria-Einsiedel Austriæ infer.

2. **Actinonema Loniceræ-alpigena** Allesch. Bot. Centr. II, p. 44. — 6016
Maculis minutis, rotundato-angulosis vel irregularibus, dein confluentibus, nigrobrunneis; fibrillis tenuissimis, dendroideo-ramulosis.

Hab. in foliis vivis Loniceræ alpigenæ, prope Rottenbuch Bavariæ sup.

3. **Actinonema Fraxini** Allesch. Bot. Centr. 1890, II, p. 44. — Ma- 6017
culis magnis, irregularibus, brunneolis, mox totam folii paginam occupantibus; fibrillis præcipue ad macularum marginem insertis, subtenuibus, ramulosis, radiantibus; peritheciis et sporulis non visis.

Hab. in foliis vivis Fraxini excelsioris, prope München Austriæ infer.

4. **Actinonema Tiliæ** Allesch. Bot. Centr. 1890, II, p. 44. — Macu- 6018
lis magnis, dendroideo-ramosis, in folii paginis dein effusis, nigrescentibus, fibrillis griseo-albis, parum ramosis, tenuissimis præditis.

Hab. in foliis vivis Tiliæ dejectis, Kaninchenberg et Isarauen Austriæ infer.

5. **Actinonema Pirolæ** Allesch. Bot. Centr. 1890, II, p. 45. — Ma- 6019
culis magnis, irregularibus, nigris, dein totum folium occupantibus; fibrillis tenuissimis, dendroideo-ramulosis, griseo-albidis, superficia-

libus; peritheciis numerosis, conicis, nigrescentibus, epidermide tectis; sporulis elongatis, utrinque subattenuatis, medio septatis, non constrictis, circ. 8–10 ≃ 2.

Hab. in foliis Pirolæ secundæ in silva prope München Bavariæ.

6020 6. **Actinonema Podagrariæ** Allesch. Bot. Centr. 1890, II, pag. 44. — Maculis brunneis, plerumque irregulariter rotundatis; fibrillis tenuissimis, copiose ramosis, submoniliformibus, quoquoversum dispositis, epidermide tectis.

Hab. in foliis dejectis adhuc vivis Ægopodii Podagrariæ, Isarthal pr. Maria-Einsiedel Austriæ infer.

6021 7. **Actinonema? hirsutum** Speg. F. Guar. II, n. 171. — Subiculo hypophyllo, laxissimo, arachnoideo-expanso, velutino, atro-olivaceo, ex hyphis repentibus, subtorulosis (articulis cylindraceis, 12-14 ≃ 4), gracilibus, guttulatis, olivaceis, hinc inde setulas erectas cylindraceas, 120–150 ≃ 5, sursum sensim attenuatas apiceque obtusulas, 3–9-septulatas, olivaceas gerentibus, efformato; peritheciis in subiculo sparsis, globulosis, 100 μ. diam., tenue membranaceis, grosse parenchymatico-cellulosis, olivaceis, glabris, primo astomis, dein apice ostiolatim dehiscentibus; sporulis cylindraceis, utrinque obtusis, 30–35 ≃ 5, rectis v. flexuosis, medio 1-septatis, non constrictis, hyalinis.

Hab. ad folia viva Panici cujusdam in herbosis silvaticis pr. Guarapi Brasiliæ.

DARLUCA Cast. — Syll. III, p. 410.

6022 1. **Darluca interseminata** Wint. in Journ. of Myc. 1885. p. 102. — Peritheciis gregariis seu dense sparsis, superficialibus, punctiformibus, globosis, demum collapsis, poro pertusis, membranaceis, fuscis, 80–130 μ. diam.; sporulis oblongis vel oblongo-cylindraceis, utrinque rotundatis, hyalinis, uni- rarissime bi-septatis, ad septum vix vel perparum constrictis, 12–14 ≃ 3.

Hab. in foliis Stellariæ, sociâ *Peronosporâ Alsinearum,* in Amer. bor.

6023 2. **Darluca australis** Speg. F. Guar. II, n. 169. — Peritheciis globulosis, minutis, 140–150 μ. diam., dense gregariis, hinc inde plagulas suborbiculares, pulvinulatas, 0,5-2 mm. diam., granulosas, atras efficientibus, coriaceo-membranaceis, contextu fuligineo, indistincto, glabris, ostiolo impresso pertusis; sporulis fusoideis vel elongato-subbiconicis, medio 1-septatis, non vel vix constrictis, utrin-

que acutiusculis, 18-20 ≃ 4, ac in juventute mucoso-penicillatis, dein exappendiculatis, hyalinis.

Hab. ad folia viva Bignoniæ cujusdam in dumetis pr. Guarapi Brasiliæ. — Species in Uredine non parasitans, contextu fuligineo sporularumque magnitudine satis distincta.

3. **Darluca ammophila** Sacc. Bomm. et Rouss. Fl. Myc. Belg. II, p. 35. 6024
— Peritheciis sparsis, sphæricis, nigris, subepidermicis, 95-135 μ. diam., epidermidem ostiolo papilliformi perforantibus; sporulis ovato-fusoideis, valde regularibus, hyalinis, 30 ≃ 25, ad septum non constrictis, utrinque hyalino-apiculatis.

Hab. in foliis siccis Ammophilæ arenariæ, Ostende Belgii. — An var. v. status *Tiarosporæ* sequentis?

TIAROSPORA Sacc. et March. in Rev. Myc. 1885, p. 148 (Etym. a *tiara*, ob sporulas appendiculato-galeiformes). — Perithecia epidermide tecta, globulosa, atra, obtuse papillata, membranacea. Sporulæ ellipsoideæ, 1-septatæ, hyalinæ, granulosæ, utrinque appendice apice dilatato-pileata auctæ. — Contextu perithecii atro et forma abnormi appendicis sporularum ab *Ascochyta* et *Darluca* mox dignoscitur.

1. **Tiarospora Westendorpii** Sacc. et March. in Rev. Myc. 1886, p. 118. 6025
— Peritheciis gregariis, horizontaliter ellipticis, ½ mm. long., ¼ latis; ostiolo obtuso; sporulis ellipsoideo-rhombeis, 1-septatis, non constrictis, 25 ≃ 16-18, appendicibus 5-6 μ. long.

Hab. in foliis Ammophilæ arenariæ, Ostende in Belgio (Westendorp).

DIPLODINA West. — Syll. III, p. 411.

I. *In Dicotyledoneis lignosis.*

1. **Diplodina Gallæ** Ell. et Ev. in Jour. of Myc. 1886, p. 37. — Minuta, atra; peritheciis epidermide tectis, dein ea rupta suberumpentibus, sparsis v. 3–6-aggregatis; sporulis obovatis, 1-septatis, subhyalinis (pallide luteolis), 10-12 ≃ 5-7; basidiis crassiusculis. 6026

Hab. in gallis quercinis, Massachussetts Amer. bor. (C. H. Clarke).

2. **Diplodina semiimmersa** Karst. et Har. Journ. Bot. 1890, p. 360. 6027
— Peritheciis subgregariis, semiimmersis, carbonaceis, sphæroideis, atris, dein poro pertusis, 100-200 μ. diam.; sporulis oblongatis, utrinque obtusis, 1-septatis, chlorino-hyalinis, 10-12 ≃ 3-4,5.

Hab. in trunco vetusto Fagi, Fontainebleau Galliæ (Tulasne).

3. **Diplodina nitida** Karst. Symb. Myc. Fenn. XXVI, p. 30. — Peri- 6028
thecciis per corticem erumpentibus, solitariis vel cæspitosis, sphæroideis vel truncato-oblongatis, vertice vulgo impressis, levibus, atris, circ. 0,2 mm. diam.; sporulis acrogenis, fusoideo-elongatis, rectis vel subrectis, plerumque 1-septatis, hyalinis, haud constrictis, 12-18 ≃ 2,5-3,5; basidiis filiformibus, 30-50 ≃ 1.

Hab. in ramulis emortuis Alni incanæ pr. Mustiala Fenniæ.

4. **Diplodina Acerum** Sacc. et Br. in Rev. Myc. 1886. — Peritheciis 6029
innatis, cortice immersis, erumpentibus, epidermide rupta tectis; sporulis oblongo-fusiformibus, utrinque leniter attenuatis, hyalinis, plerumque 1-septatis et sæpe ad septum constrictis, 12-16 ≃ 4-4,5.

Hab. in ramulo cæso delapsoque Aceris Pseudoplatani prope Troyes Galliæ.

5. **Diplodina plana** Karst. Hedw. 88. — Peritheciis sparsis, epider- 6030
mide tectis, planis, orbicularibus, atris, poro pertusis, 0,1-0,2 mm. diam.; sporulis oblongatis, utrinque obtusis, rectis, 1-septatis, chlorino-hyalinis, 6-10 ≃ 2.

Hab. in ramis emortuis Sambuci racemosæ in horto mustialensi Fenniæ.

6. **Diplodina minima** Rich. Cat. Champ. Marn. n. 1695. — Sporulis 6031
griseo-lacteis.

Hab. in ramulis Ligustri vulgaris, St.-Amand Galliæ.

7. **Diplodina Eurhododendri** Voss Mat. Pilz. Krains V, p. 229, f. 9. — 6032
Peritheciis gregariis, erumpentibus, nigris, globosis, minutis, circ. 200-250 μ. diam., mollibus; sporulis oblongo-fusoideis, utrinque acutatis, rectis, 1-septatis, hyalinis, numerosissimis, 9-13 ≃ 2-3.

Hab. in capsulis emortuis Rhododendri hirsuti, Bärenthal supra Jauenburg, Carniolia Austriæ.

8. **Diplodina Kœberliniæ** E. et E. Journ. Myc. 1888, p. 123. — Pe- 6033
ritheciis gregariis, subcutaneis, 0,5 mm. diam., epidermidem lacerantibus, sed non erumpentibus; sporulis ellipsoideis, hyalinis, 14-16 ≃ 7-8, endochromate medio imperfecte diviso.

Hab. in ramis Kœberliniæ spinosæ, Arizona Amer. bor.

9. **Diplodina Corni** Cooke in Grev. XVI, p. 8. — Gregaria; peri- 6034
theciis subglobosis, nigris, papillatis, epidermide ostiolis pertusa tectis; sporulis anguste ellipsoideis, 1-septatis, non constrictis, hyalinis, 10-12 ≃ 3.

Hab. in ramis Corni sanguineæ, Shotover Plantation Britanniæ (Baxter).

10. **Diplodina Vitis** Brun. Champ. Saint. p. 339. — Peritheciis sparsis vel gregariis, vix erumpentibus, globosis, nigris, pertusis; sporulis oblongo-elongatis, hyalinis, 1-septatis, ad septum non constrictis, 15 = 5-5,5. 6035

Hab. in sarmentis emortuis Vitis viniferæ, Saintes Galliæ.

11. **Diplodina Veronicæ** Brun. Esp. Sphærops. pag. 2. — Peritheciis sparsis v. approximatis, minutis, nigris, lucentibus, globulosis, compressis, per ligni fibras erumpentibus; sporulis ovoideis vel ovoideo-oblongis, utrinque rotundatis, hyalinis, 1-septatis, ad septum constrictis, 8-10 = 3. 6036

Hab. in ramis emortuis Veronicæ Andersoni, Saintes Galliæ.

12. **Diplodina Hippocastani** (Lib.) Sacc. F. Ardenn. n. 167, *Ascochyta Hippocastani* Lib. Crypt. II, n. 151 (1832). — Peritheciis sparsis, tectis, globosis, rufo-fuscis, ostiolo orbiculari apertis; cirris albis; sporulis fusoideis rectis v. curvulis, 20-22 = 3,5, tenuiter v. spurie 1-septatis, non constrictis, hyalinis. 6037

Hab. in cortice ramorum Æsculi Hippocastani in Arduennis.

13. **Diplodina Spirææ** Passer. Diagn. F. N. n. 116. — Peritheciis crebre sparsis, minute pustulæformibus, rectis, fuscis; sporulis numerosis, fusiformibus, medio septatis, non constrictis, hyalinis, 10-12,5 = 2,5-3; basidiis non visis. 6038

Hab. in ramis siccis Spirææ crenatæ in horto botanico parmensi Ital. bor.

14. **Diplodina fructigena** Karst. Symb. Myc. Fenn. XXVIII, p. 42. — Peritheciis sparsis vel subgregariis, erumpentibus, globulosis vel oblongatis, astomis, atris, 0,3 mm. diam.; sporulis fusoideo-elongatis, rectis, hyalinis, 10-20 = 3-4. 6039

Hab. ad carpella Ledi palustris pr. lacum mustialensem, Salois Fenniæ (O. Karsten).

15. **Diplodina Grossulariæ** Sacc. et Briard in Rev. Myc. 1886. — Peritheciis sparsis, epidermide velatis, nigris, globulosis, lucidis, $^1/_6$-$^1/_5$ mm. diam.; sporulis oblongo-cylindraceis, obtusis vel leniter fusiformibus, 1-septatis, non contractis, 8-10 = 2-2,5, hyalinis. 6040

Hab. in caulibus emortuis Ribis Uvæ-crispæ, Troyes Galliæ (Briard).

16. **Diplodina hysterioides** Karst. et Har. Journ. Bot. 1890, p. 359. — Peritheciis sparsis, semiimmersis, membranaceis, celluloso-contextis, ovoideis vel oblongatis, rarissime rotundatis, convexis, glabris, 6041

atris, dein poro plus minus ampliato apertis, intus rufescenti-pallidis vel pallidis, circ. 200 μ. diam.; sporulis oblongatis, rectis, utrinque obtusissimis vel truncatis, 1-septatis, ad septum non constrictis, hyalinis, 15-16 × 6; basidiis brevissimis.

Hab. in ligno denudato vetusto, Milano Ital. bor. (De Notaris). — Vergit ad *Pseudopatellam*.

17. **Diplodina punctulata** Pat. Bull. Soc. Myc. 1888, p. 123. — Peritheciis punctiformibus, sparsis, nigris, globosis; contextu membranaceo, e cellulis magnis, brunneis efformato; sporulis numerosissimis, ovoideis, hyalinis, in loculos 2 valde inæquales divisis, ad septum constrictis, 8-9 ≃ 3-4; basidiis brevissimis; paraphysibus filiformibus, copiosis. 6042

Hab. in foliis Dicotyledoneæ cujusdam, Puerto Zamuro Venezuelæ.

II. *In Dicotyledoneis herbaceis.*

18. **Diplodina Glaucii** Cooke et Mass. in Grev. XVII, p. 79. — Peritheciis minutis, sparsis, globosis, nigris, epidermide ostiolo papillato pertusa, tectis; sporulis ellipsoideis, obtusis, vix constrictis, 1-septatis, hyalinis, 12-13 × 3. 6043

Hab. in caulibus emortuis Glaucii fulvi, Kew Britanniæ.

19. **Diplodina verbenacea** Har. et Briard Rev. Myc. 1890, n. 47. — Peritheciis numerosis, nigris, plus minus confertis, subepidermicis, papillatis, 1/6-1/5 mm. diam., papilla epidermidem perforante; sporulis ovoideo-oblongis, obtusis, 1-septatis, ad septa constrictis, hyalinis, 12-13 ≃ 4-4,5. 6044

Hab. in caulibus siccis Verbenæ officinalis, Méry-sur-Seine Galliæ (Hariot).

20. **Diplodina Phlogis** Fautrey in Rev. myc. 1890, p. 165. — Peritheciis gregariis, numerosissimis, non confluentibus; sporulis 1-septatis, constrictis, 8-12 ≃ 3-4. 6045

Hab. in caulibus Phlogis paniculatæ, Noidan, Côte-d'Or Galliæ (F. Fautrey).

21. **Diplodina Antirrhini** Fautr. Rev. Myc. 1891, p. 10. — Sporulis oblongis, rotundatis, 1-septatis, paullum constrictis, 10-12 ≃ 3-4, hyalinis. 6046

Hab. in caulibus viridibus Antirrhini majoris, Noidan, Côte-d'Or Galliæ. — An *Diplodina Antirrhini* Rich. Champ. Marn. n. 1694, eadem species sit, deficiente more solito diagnosi, non liquet.

22. **Diplodina Helichrysi** Pass. in Brun. Champ. nouv. VI, p. 3. — Peritheciis lignicolis, gregariis, subglobosis vel compressis, rugulosis, nigris, per fibras corticis rimoso-elevata erumpentibus; sporulis elongato-ellipsoideis vel cuneatis, primo continuis, dein 1-septatis, medio non vel vix constrictis, hyalinis, 10-17,5 × 3-5. 6047

Hab. in caulibus emortuis Helichrysi Stœchadis, Fouras pr. Saintes Galliæ.

23. **Diplodina conformis** Sacc. Bomm. et Rouss. Fl. myc. Belg. II, p. 35. — Peritheciis sparsis, subepidermicis, dein erumpenti-subsuperficialibus, globulosis, 260-360 μ. diam., opacis, primo brunneolis, dein nigris, interdum leniter velutinis, denique collabentibus, ostiolo brevi, conico; sporulis hyalinis, 1-septatis, oblongis, 7-11 ≃ 2,5-3. 6048

Hab. in caulibus emortuis Resedæ albæ, Watermael Belgii. — Ab affini *D. deformi* peritheciis valde regularibus et ostiolo conico diversa.

24. **Diplodina Chenopodii** Karst. in Hedw. 1885, pag. 73. — Peritheciis sparsis, initio epidermide tectis, subsphæroideis, vertice in ostiolum conoideum, poro pertusum attenuatis, glabris, atris, 0,1-0,2 mm. diam.; sporulis oblongatis, utrinque obtusissimis, rectis, 1-septatis, eguttulatis, ad septa vix constrictis, hyalinis, 14-16 ≃ 5,6-6,5. 6049

Hab. ad caules emortuos Chenopodii viridis prope Mustiala Fenniæ.

25. **Diplodina Amaranthi** Fautrey in Rev. myc. 1890, p. 124. — Peritheciis sparsis, subepidermicis, oblongis, mediis, 120 ≃ 60, poro pertusis; sporulis oblongis, rectis vel subcurvis, hyalinis 1-septatis, ad septum constrictis, circ. 8-10 ≃ 3. 6050

Hab. in caulibus siccis Amaranthi caudati, Noidan, Côte-d'Or Galliæ. — *D. Chenopodii* affinis.

26. **Diplodina Parietariæ** Brun. Champ. Saint. p. 339. — Peritheciis gregariis, tectis, dein erumpentibus, oblongis v. subglobosis, nigro-brunneis, demum collabascentibus; sporulis subfusoideis, 1-septatis, hyalinis, 15 × 3,5. 6051

Hab. in caulibus emortuis Parietariæ officinalis, Pons pr. Saintes Galliæ.

27. **Diplodina Humuli** Brun. Champ. Saint. pag. 339. — Peritheciis sparsis, erumpentibus, globosis vel globoso-depressis, nigris, pertusis; sporulis subfusoideis, hyalinis, 1-septatis, ad septum non v. vix constrictis, 15-18 ≃ 2,5-3. 6052

Hab. in caulibus emortuis Humuli Lupuli, Saintes Galliæ.

III. *In Monocotyledoneis.*

28. **Diplodina ramulorum** Ell. et Ev. Journ. Myc. 1889, pag. 152. — Peritheciis subcutaneis, nigris, minutis, gregariis; sporulis oblongis vel obovato-oblongis, 2-guttatis, dein 1-septatis, hyalinis, 18-22 = 7-8, utrinque rotundatis et obtusis. 6053

Hab. in caulibus dealbatis Smilacis et Lycii, Newfield, N. Jersey Amer. bor.

29. **Diplodina Dendrobii** Cooke et Mass. in Grev. XIV, p. 3. — Peritheciis epiphyllis, gregariis, innatis, atris, convexis, demum epidermide fissa, supra denudatis, nitidis; sporulis didymis, ellipticis, hyalinis, 20 = 6-7. 6054

Hab. in foliis Dendrobii speciosi, Brisbane Australiæ (Bailey).

30. **Diplodina Iridis** Pass. in Journ. hist. Nat. Bord. 1885, pag. 136, Brunaud Liste Sphærops. pag. 41. — Maculis nullis; peritheciis punctiformibus, sparsis, nigris; sporulis oblongis, utrinque rotundatis, ad medium 1-septatis, hyalinis, 18-20 = 5. 6055

Hab. in foliis emortuis Iridis Pseudacori, Saintes, Saint-Cézaire Galliæ.

31. **Diplodina Smilacis** Ell. et Ev. in Journ. of Myc. 1886, p. 101. — Peritheciis sparsis, depressis, globosis, 1/6 mm. diam., epidermide nigrescente, ostiolo minuto perforata, tectis, prominulis; sporulis oblongis v. ellipsoideo-oblongis, hyalinis, binucleatis, 1-septatis, ad septum vix constrictis, 7-8 = 3-3,5. 6056

Hab. in caulibus emortuis Smilacis, Newfield Amer. bor.

32. **Diplodina Ammophilæ** Trail in Scot. Nat. I, p. 76. — Peritheciis sparsis inter nervulos, ovalibus, ostiolo papillato pertusis, obscuris; sporulis hyalinis, late fusiformibus, 30 = 12, uniseptatis, utrinque mucoso-appendiculatis. 6057

Hab. in foliis emortuis Ammophilæ arundinaceæ, Aberdeen Scot. — «An *Tiarospora?*»

33. **Diplodina? verruculosa** Speg. F. Fueg. n. 408. — Peritheciis erumpenti-superficialibus, hemisphærico-globulosis, 200-250 μ. diam., densiuscule gregariis vel seriatis, minute denseque verruculosis, atris, astomis vel irregulariter dehiscentibus, membranaceo-coriaceis; contextu parenchymatico, pellucido, fuligineo; sporulis cylindraceis, utrinque obtusiusculis, 8-12 = 1-1,5, rectis vel subcurvulis, hyalinis. 5058

Hab. ad culmos dejectos putrescentes Tritici secundi in maritimis prope Shammacus Brasiliæ.

CYSTOTRICHA B. et Br. — Syll. III, p. 413.

1. **Cystotricha aurodisca** Cooke in Grevillea V, p. 56. — Peritheciis 6059
ovatis vel ellipsoideis, longitudinaliter erumpentibus, margine serrato, disco aurantiaco; basidiis gracilibus, sursum ramosis; sporulis cylindraceis, simplicibus, «an denique uniseptatis?»

Hab. in frustulis lignosis, Darenth Britanniæ.

2. **Cystotricha Striola** B. et Br. Cfr. Syll. III, pag. 414, Rich. Cat. Champ. Marn. n. Suppl. p. 543. — Perithecia ligno immersa, brunnea, nigricantia, hysteriiformia; nucleo albido; sporulis hyalinis, ellipsoideis, 1-septatis, 7 μ. long., basidiis longis, septatis, ramosis lateraliter insertis. — Nascitur quoque in ligno denudato dejecto Alni glutinosæ, St.-Amand Galliæ.

PUCCINIOSPORA Speg. Guar. I, p. 147 (Etym. a *Puccinia* et *spora*). — Perithecia superficialia, globosa, astoma?, atra, subiculo parcissimo, radiante, folicolo insidentia. Sporulæ majusculæ, didymæ, hyalinæ. — Est *Diplodina* superficialis, phyllogena.

1. **Pucciniospora Chusqueæ** Speg. loc. cit. — Maculis amphigenis, el- 6060
lipticis, 1,5-2,5 mm. long., 1 mm. lat., ferrugineis, indeterminatis, flavescenti-cinctis; peritheciis epiphyllis, laxe 2-5-gregariis, globosis, 120-160 μ. lat., atris, subverruculosis, astomis, contextu grosse parenchymatico, pellucido, olivaceo, hyphis paucis, repentibus, undulatis, dilute olivaceis, parce septulatis, insidenti-cinctis; sporulis ellipsoideis vel ovoideis, supra late rotundatis, subtus subcuneatis, 35-36 $\simeq$ 15, ad septum non constrictis, pedicello brevissimo, 5 $\simeq$ 4, hyalino appendiculatis.

Hab. ad folia viva Chusqueæ tenuiglumis prope Villa-Rica Brasiliæ.

Sect. 5. Phæophragmiæ.

HENDERSONIA Berk. — Sacc. Syll. III, p. 419.

I. *In Dicotyledoneis lignosis.*

1. **Hendersonia affinis** Pass. in Rev. Myc. 1886. p. 142. — Perithe- 6061
ciis amphigenis, punctiformibus, hinc inde aggregatis, maculis inter nervos insidentibus, subinde sparsis, atris; sporulis ellipsoideo-

oblongis, biseptatis, raro uniseptatis, septis non vel vix constrictis, brunneo-olivaceis, 12,5 = 5.

Hab. in foliis putrescentibus Tiliæ europææ, Saintes Galliæ. — Sporulis biseptatis, *H. biseptatæ* affinis.

2. **Hendersonia ambiens** Cooke in Grevillea XIV, p. 5. — Peritheciis gregariis, cuticula elevata, longitudinaliter perforata tectis, globosis, mox papillatis; sporulis anguste ellipticis, triseptatis, non constrictis, pallide brunneis, 20 = 7-8; basidiis sporularum longitudinem æquantibus, mox evanidis. 6062

Hab. in ramulis Aceris dasycarpi, Kew Britanniæ.

3 **Hendersonia Colchicæ** Pass. in Brun. Champ. Saint. V, p. 6. — Peritheciis epidermide dealbata, disrupta tectis, parenchymate corticali nidulantibus; sporulis ellipsoideis, 3-septatis, brunneis 10 = 3. 6063

Hab. in ramis emortuis Staphyleæ colchicæ, Saintes Galliæ.

4. **Hendersonia Staphyleæ** Ell. Ev. in Journ. of Myc. I, n. 151. — Peritheciis *Leptosphæriæ rubrolineatæ* [cujus verisimiliter est pycnidium] similibus, et ab iis vix distinguendis; sporulis oblongis, obtusis, rectis vel vix curvulis, 3-septatis, obscure brunneis. 6064

Hab. in ramulis emortuis Staphyleæ trifoliæ in America boreali.

5. **Hendersonia Tamaricis** Cooke in Grevillea XIV, p. 5. — Peritheciis laxe gregariis, cuticula elevata tectis, subglobosis, vix papillatis; sporulis ellipticis, utrinque leniter attenuatis, triseptatis, non constrictis, pallide brunneis, 18-20 = 7. 6065

Hab. in ramulis Tamaricis gallicæ, Kew Britanniæ. — Var. **Elæagni** Cooke l. c.: peritheciis minoribus, minus gregariis; sporulis ut in typo. In ramis Elæagni, Kew Britanniæ.

6. **Hendersonia Berberidis** Fautrey in Rev. Myc. 1890, p. 166. — Peritheciis subcutaneis, nigris, globoso-depressis, vix papillatis, poro pertusis; sporulis cylindraceis utrinque rotundatis, ex olivaceo fuligineis, 7-9-septatis, 30-36 = 4-5. 6066

Hab in ramulis adhuc vivis Berberidis, Beaune, Côte-d'Or Galliæ.

7. **Hendersonia corticalis** E. et Ev. North. Am. fungi n. 1377. — Exemplaria Ellisiana in meo herbario *Phomam* sistunt (sporulis oblongis, 2-guttatis, 6 = 1,5). 6067

Hab. in cortice relaxato trunci Vitis viniferæ, Newfield Amer. bor. — Diagnosim non inveni.

8. **Hendersonia Coriariæ** Brun. Suppl Sphæroid. p. 3. — Peritheciis 6068

sparsis, globulosis tectis, dein erumpentibus, poro pertusis, nigris v. brunneo-nigris, membranaceis; sporulis ellipsoideis v. ovoideo-oblongis, utrinque obtusis, rectis v. curvulis, 3-septatis, brunneis, 17–23 = 6–7.

Hab. in ramis emortuis Coriariæ myrtifoliæ, Saintes Galliæ.

9. **Hendersonia hedericola** Fautrey in Rev. Myc. 1890, p. 166. — 6069
Peritheciis superficialibus, globulosis, collabascentibus, nigris, papillatis; sporulis elongatis, 9–14-septatis, 36–48 = 4–6, maturitate olivaceis et ad septa constrictis.

Hab. in truncis vetustis Hederæ, Noidan, Côte-d'Or Galliæ.

10. **Hendersonia Coronillæ** Cooke in Grevillea XII, p. 97. — Perithe- 6070
ciis sparsis vel gregariis, cuticula leniter elevata tectis, subglobosis vel depressis; sporulis primo uniseptatis, ellipticis, brunneis, 12 = 6, dein elongatis, constrictis, leniter curvatis, triseptatis, 18 = 7.

Hab. in ramulis Coronillæ Emeri et Baccharidis halimifoliæ, Kew Britanniæ.

11. **Hendersonia obscura** Pass. in Brun. Miscell. mycol. p. 18. — Pe- 6071
ritheciis minutis, erumpentibus, vix papillatis et subinde umbilicatis, hinc inde aggregatis et stromate intertexto-filamentoso fuligineo insidentibus; sporulis ellipsoideis v. subfusoideis, 3–5-septatis, plus minus constrictis, brunneis, 12–17 = 5–7; basidiis filiformibus, longis, cito evanescentibus.

Hab. in ramis emortuis Robiniæ Pseudacaciæ, Clermont-Ferrand Galliæ.

12. **Hendersonia Rosæ** Kickx Fl. Myc. Fl. t. I, pag. 389. — Peri- 6072
theciis sæpius sparsis, maculis pallidis insidentibus, parvis, nigris, prominentibus, epidermide tectis; sporulis ellipsoideis, triseptatis, brunneis, ad septa leniter constrictis.

Hab. in ramis emortuis delapsis Rosarum in Belgio.

13. **Hendersonia subcorticia** Passer. Diagn. F. N. V, n. 40. — Pe- 6073
ritheciis superficialibus, sparsis, minutis, subglobosis, atris; sporulis elongato-fusiformibus triseptatis, ad septa leniter constrictis, primo hyalinis, dein flavo-fuscis, loculo subultimo aliquantulum inflato 17,5 = 3,5-4; basidiis non visis.

Hab. in cortice secedente et adhuc stante Piri Mali, Baganzola prov. Parma.

14. **Hendersonia ambigua** Brun. Champ. Saint. p. 339. — Peritheciis 6074
sparsis vel adproximatis, tectis, dein erumpentibus, globoso-depressis, nigris, perforatis; sporulis oblongis, flavo-brunneis, 3-septatis, constrictis, 15–18 = 4,5-5.

Hab. in ramulis emortuis Amelanchieris, Spirææ, Solani Dulcamaræ, Saintes, Pons Galliæ. — Affinis *H. sarmentorum*, sed sporulæ longiores.

15. **Hendersonia Mespili** West., *Stagonospora Mespili* (West.) Sacc. Syll. III, p. 446. — Testibus cl. Bommer et Rousseau, sporulæ maturæ sunt fuligineæ, hinc non *Stagonospora*.

16. **Hendersonia Torminalis** Sacc. Syll. III, p. 429. — Var. **Ariæ** Br. et Har. Rev. Myc. 1891, p. 17. — Maculis epiphyllis, irregularibus, subcircularibus, brunneo-castaneis, non limitatis, 5-7 mm. diam.; peritheciis sparsis, lenticularibus, parcis, nigris, 180-200 μ. diam.; sporulis ovoideo-oblongis obtusiusculis, 3-septatis, vix vel non constrictis, loculis mediis brunneis, apicibus subhyalinis, 14-16 = 5-6. 6075

Hab. in pag. sup. foliorum Sorbi Ariæ, Trenay, Aube Galliæ (P. Hariot).

17. **Hendersonia conspurcata** Sacc. Bomm. et Rouss. El. myc. Belg. II, p. 37. — Peritheciis subglobosis, nigris, 730-790 μ. diam., cortice immersis et jugiter tectis, poro dehiscentibus; sporulis ovoideis vel oblongo-ellipsoideis, curvulis, valde inæqualibus, 1-3-septatis, 18-45 = 7-10, fuligineis, granulosis, ad septa non constrictis, paraphysibus v. basidiis (?) hyalinis, simplicibus 15-27 = 4 intermixtis. 6076

Hab. in ramulis Pruni Padi, Groenendael Belgii, sociâ *Massariâ conspurcatâ*, cujus certe est pycnidium. — Ad subg. *Sporocadum* Sacc. spectat.

18. **Hendersonia cerasella** Prill. et Delacr. Bull. Soc. Myc. 1891, p. 21, t. III, f. VII. — Peritheciis subcutaneis, fuscis, 135 μ. circ. globosis, poro papillato, 15 μ. lat.; mycelio endophyllo, parco, hyalino; sporulis dilute fuscis, 4-septatis, utrinque rotundatis, rectis v. curvulis, ad septa constrictis, 22-24 = 9-10; basidiis minutis. 6077

Hab. ad folia emortua Cerasi avium, maculam sterilem *Corynei Beijerinckii* incolens, Beaune, Côte-d'Or Galliæ.

19. **Hendersonia Punicæ** Passer. Diagn. F. N. IV, n. 67. — Peritheciis sparsis v. subgregariis, globosis, atris, per epidermidem longitudinaliter fissam erumpentibus; sporulis ellipsoideis vel piriformibus, triseptatis, ad septa crassiuscula fusca, ceterum fumosis, 12,5 = 5; basidiis filiformibus, hyalinis, sporulâ longioribus. 6078

Hab. in ramulis emortuis Punicæ Granati, Vigheffio Parma.

20. **Hendersonia Camelliæ** Pass. in Rev. Myc. 1887, p. 146. — Peritheciis sparsis, tectis, atris, ostiolo minuto, conico, erumpente; spo- 6079

rulis ellipsoideis, 3-septatis, castaneo-fuscis, 7,5-10 ≃ 5; basidiis non visis.

Hab. in ramulis aridis vel subvivis Camelliæ japonicæ, cultæ Parma Ital. bor.

21. **Hendersonia Rubi** West. Sacc. Syll. III, p. 424. — Forma **Loniceræ** Brunaud in Rev. Myc. 1886, p. 141: sporulis 18-20 ≃ 6-8, rectis v. vix curvis, ad septa constrictis. 6080

Hab. in sarmentis emortuis Loniceræ Caprifolii, Saintes Galliæ. — Forma **Vitis** Br. l. c.: sporulis 15-18 ≃ 8, ad septa constrictis. In sarmentis emortuis Vitis viniferæ, Saintes Galliæ. — Forma **Rubi Idæi** Br. l. c.: sporulis ellipsoideis vel oblongo-subclavatis, 18-20 ≃ 8, ad septa constrictis. In sarmentis emortuis Rubi Idæi, Saintes Galliæ.

22. **Hendersonia sarmentorum** West. — Syll. III, pag. 420. — Var. **galiicola** Passer. Diagn. F. N. IV, n. 68. — Peritheciis sparsis, subcutaneis, fuscis; sporulis ellipsoideis, fuscidulis, triseptatis, 12 ≃ 5; basidiis non visis. 6081

Hab. in caulibus siccis Galii Aparines Parma Ital. bor. — Var. **laurina** Cooke in Grevillea: sporulis 18 ≃ 5. In Lauro nobili, Kew Brit. Verisimiliter ad speciem novam referenda sporulis quam in typo multo longioribus. — Var. **Forsythiæ** Brun. in Rev. Myc. 1886, p. 142: sporulis rectis vel paullo curvatis, 12-14 ≃ 5. In ramis emortuis Forsythiæ viridissimæ, Saintes Galliæ.

23. **Hendersonia syringæcola** Brun. Champ. Saint. p. 339. — Peritheciis sparsis v. adproximatis, minutis, nigris, subcutaneo-erumpentibus, globulosis vel globoso-depressis, perforatis; sporulis oblongis, 18 ≃ 8-9, e flavo subfuligineis, 3-septatis, subconstrictis. 6082

Hab. in fructibus siccis Syringæ vulgaris, Pons Galliæ.

24. **Hendersonia Ligustri** Rich. Cat. Champ. Marn. n. 1707. — Peritheciis subcutaneis; sporulis in massam expulsis. 6083

Hab. in ramis Ligustri vulgaris, St. Amand Galliæ.

25. **Hendersonia hapalocystis** Cooke Grev. XVIII, p. 74. — Peritheciis sparsis, immersis, vix visibilibus; sporulis majusculis, 45-50 ≃ 18, 4-locularibus; loculis mediis latioribus, protuberantibus, atro-brunneis, fere nigris; loculis extimis minutis, hyalinis, sæpius apiculiformibus. 6084

Hab. in ramis tenellis Fraxini pr. Bristol Britanniæ. — Ad subgen. *Sporocadum* Sacc. spectat.

26. **Hendersonia epixyla** Malbr. et Brun. Sphærops. pag. 3. — Pe- 6085

ritheciis minutis, globuloso-collabentibus, superficialibus, nigris, ostiolo obsoleto perforatis, aggregatis maculamque nigram formantibus; sporulis ellipsoideo-oblongis, utrinque obtusis, 2- raro 3-septatis, ad septa vix constrictis, 15-20 = 3,5-4, fuligineis.

Hab. in ligno decorticato Fraxini excelsioris, Saintes Galliæ. — Ob perithecia superficialia, lignicola ad subg. *Hendersoniellam* Sacc. spectat.

27. **Hendersonia Tini** Ell. et Langl. Journ. Myc. 1890, p. 37. — Maculis latis, 2-3 cm., cinereis, purpurascenti-marginatis; ritheciis amphigenis, punctiformibus, innato-erumpentibus; sporulis fusoideis, nucleolatis, subrectis, pallide stramineo-flavis, 22-27 = 2,5. 6086

Hab. in foliis subvivis Viburni Tini, Lafayette La. Amer. bor. — Ad *Septoriam* vergit.

28. **Hendersonia Fiedleri** West. Sacc. Syll. III, p. 421. — Var. **Symphoricarpi** Cooke in Grevillea. — Sporulis triseptatis, 18 = 4, pallide coloratis. 6087

Hab. in sarmentis Symphoricarpi racemosæ, Kew, Swanscombe Brit.

29. **Hendersonia Periclymeni** Oud. Contr. Mycol. XIII, pag. 47, t. 8, f. 29. — Peritheciis sparsis, nigris, subcarbonaceis, compressis, 0,5 mm. diam., inter fibras corticales nidulantibus, ostiolo manifesto, peridermium atratum perforante; sporulis numerosis, cylindraceis rectis curvulisve, utrinque rotundatis, 3-septatis, leniter constrictis, 18-28 = 3,5-7, pallide badiis. 6088

Hab. in trunco ramisque adhuc vivis Loniceræ Periclymeni, Schéveningue (Dom. Destrée).

30. **Hendersonia concentrica** Ell. et Ev. Journ. Myc. 1889, p. 149. — Maculis marginalibus, 1-2 cm. lat., zonis alternate pallidis fuscisque variegatis, margine definito, haud elevato, acervulis erumpentibus, nigris; sporulis fusoideo-oblongis, pallide brunneis, 3-septatis, 12-15 = 3; basidiis gracilibus, 20-30 μ. longis. 6089

Hab. in foliis vivis Rhododendri catawbiensis, Roan Mountains North Carolina Amer. bor. (F. L. Scribner). — In Rhod. maximo ex eodem loco fungus occurrit in areis majoribus obsoletius zonatis.

31. **Hendersonia stictica** Lév. in An. Sc. Nat. 1863, p. 299. — Peritheciis gregariis, epiphyllis, punctiformibus, prominulis, convexis, basi applanatis, intus extusque nigris, macula albida, limitata insidentibus; basidiis simplicibus; sporulis ovato-fusiformibus, incoloribus, 3-5-septatis, diametro quadruplo quintuplove longioribus. 6090

Hab. ad folia Thibaudiæ rupestris, Bogota, Monserrate Novæ Granatæ.

32. **Hendersonia Daphnes** Pass. Fung. Gall. novi in Journ. d'Hist. nat. 1885, n. 4, pag. 16. — Maculis indeterminatis, expallentibus; peritheciis sparsis, nigris, punctiformibus, exiguis, initio epidermide velatis; sporulis primo oblongis, integris, hyalinis, tandem triseptatis; loculis duobus intermediis fuscis, terminalibus acutiusculis, hyalinis, 15-20 ≃ 5. 6091

Hab. in foliis Daphnes indicæ pr. Saintes in Galliæ (Brunaud).

33. **Hendersonia bicolor** Pat. in Rev. Myc. 1886, p. 182. — Maculis epiphyllis, sæpe orbicularibus, cinereis, margine ruguloso cinctis; peritheciis vix prominulis, nigris, lucidis; sporulis ovoideis, 8-12 ≃ 5-6, utrinque parum curvatis, biseptatis, loculis duobus rufis, alio hyalino attenuatoque. 6092

Hab. in foliis Rhododendri, Yunnam Sinarum (Ab. Delavay).

34. **Hendersonia Platani** Rich. Cat. Champ. Marn. n. 1708. — Peritheciis subcircinatim dispositis. 6093

Hab. in ramis Platani, Ablancourt Galliæ.

35. **Hendersonia Davisii** Ell. et Ev. Journ. Myc. 1889, pag. 149. — Maculis latis, folii superiorem partem omnino occupantibus, atro-brunneis; peritheciis plerumque epiphyllis, gregariis, nigris, erumpentibus, 125-150 μ. diam., mox ob sporulas eructatas absconditis; sporulis obovato-oblongis, atro-olivaceis, 3-septatis, 10-12 ≃ 3-3,5. 6094

Hab. in foliis partim emortuis Caryæ albæ, Racine Wis. Amer. bor. (J. J. Davis).

36. **Hendersonia samararum** Brun. Miscell. Mycol. p. 18. — Peritheciis sparsis, globulosis v. globoso-depressis, atris; sporulis oblongo-ellipsoideis, 3-septatis, non constrictis, pallide fuligineis, 15-18 ≃ 4,5-5, loculo infero hyalino. 6095

Hab. in samaris Ailanthi glandulosæ, Saintes Galliæ.

37. **Hendersonia Celtidis** Ell. et Ev. Journ. Myc. 1888, pag. 102. — Peritheciis erumpentibus, sparsis, epidermide rupta cinctis, minutis, subinde depressis; sporulis clavato-oblongis v. subfusoideo-oblongis, flavidis, 3-7-septatis, ad septa plerumque constrictis, 15-25 ≃ 4-5, utrinque obtusis. 6096

Hab. in ramis emortuis Celtidis occidentalis West Chester Pa. Amer. bor.

38. **Hendersonia Planeræ** Cooke et Mass. Grev. XVI, p. 78. — Pe- 6097

ritheciis sparsis, erumpentibus, subglobosis, atris, peridermio fisso diu tectis; sporulis ellipsoideis, utrinque rotundatis, triseptatis, leniter constrictis, brunneis, 30 ≃ 10-12.

Hab. in ramis Planeræ, Kew, London Britanniæ. — *H. vaganti* proxima.

39. **Hendersonia punctoidea** Karst. Sphærops. Fenn. p. 36. — Peri- 6098
theciis sparsis, cortice immersis, erumpentibus, sphæroideo-applanatis, atris, punctiformibus; sporulis oblongatis v. elongatis, rectis, 1-3-septatis, dilute fuligineis, 11-15 ≃ 5.

Hab. in cortice levi Betulæ albæ in Alandia (Edw. Nylander). — *Hend. exiguæ* affinis.

40. **Hendersonia populina** Passer. Diagn. F. N. IV, n. 69. — Maculis 6099
epiphyllis, discoideis, griseo-albidis, interdum confluentibus; peritheciis sparsis, tectis, globosis; sporulis ellipticis, utrinque subacutis, triseptatis, non constrictis, fuscidulis, 12,5 ≃ 5.

Hab. in foliis languidis Populi albæ, Vigheffio pr. Parma.

41. **Hendersonia candida** Passer. Diagn. F. N. V, n. 41. — Maculis 6100
epiphyllis, discoideis, arescendo candidis; peritheciis punctiformibus, vertice erumpentibus; sporulis nomerosis, fusiformibus, 7-9-septatis, olivaceis, 33-44 ≃ 5-6.

Hab. in foliis languentibus Populi albæ, sociâ *Septoriâ candidâ*, Vigheffio, Parma.

42. **Hendersonia Juniperi** Rich. Cat. Champ. Marn. n. 1706 (absque 6101
diagnosi) *).

Hab. in ramulis Juniperi communis, sociâ *Diplodiâ Juniperi*, St. Amand Galliæ.

43. **Hendersonia conorum** De Lacr. — Syll. III, p. 430. — Teste Celotti Mic. Montp. p. 26, sporulæ 15-18 ≃ 6-8. Nascitur quoque in strobilis Abietis, Montpellier Galliæ.

44. **Hendersonia acuum** Karst. Symb. XVII, p. 162. — Peritheciis 6102
sparsis, superficialibus, ellipsoideis, subastomis, atris, 0,2 mm. long., sporulis oblongo-ovoideis, medio vulgo angustatis apiceque attenuatis, 3-septatis, ad septa haud constrictis, 15-16 ≃ 6, dilute fuligineis, loculo imo subhyalino; basidiis subramosis, filiformibus, 46 ≃ 1,5.

Hab. in foliis emortuis Pini silvestris pr. Aboa Fenniæ.

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*) Nomina nuda mycetum in Richonii Catalogo sæpius occurrentia, ut evidens est, nihil valent, sed ea retuli sperans auctorem diagnoses suas proxime prolaturum.

II. *In Dicotyledoneis herbaceis.*

45. **Hendersonia Arabidis** Rost. Fung. Groenl. p. 571. — Peritheciis 6103
minutis, hemisphæricis, papillatis, atris; sporulis numerosis, initio continuis, hyalinis, guttulatis, dein 3-septatis, fuscis, 20-28 = 3-4, cylindraceo-fusoideis.

Hab. in caulibus Arabidis Helbollii, Pingo-Field Groenlandiæ (Jensen).

46. **Hendersonia Aconiti** Rich. Cat. Champ. Marn. n. 1704. — Spo- 6104
rulis brunneis et breve pedicellatis.

Hab. in petiolis Aconiti in hortis St. Amand Galliæ.

47. **Hendersonia Thalictri** Pat. in Rev. Myc. 1886, p. 83. — Peri- 6105
theciis minutis, rugosis, epidermide tectis, mycelio repente cinctis, setis 5-6, rigidis, 45-60 μ. longis acutis; sporulis elongatis, rufis, septatis, septis, constrictis, 9-11 = 2.

Hab. in caulibus emortuis Thalictri in Sinis (Parny).

48. **Hendersonia Hyperici** Rich. Cat. Champ. Marn. n. 1705 (absque 6106
diagnosi).

Hab. in caulibus Hyperici perforati in silvis St. Amand Galliæ.

49. **Hendersonia papillata** Pat. Journ. Bot. 1888, p. 150. — Perithe- 6107
ciis punctiformibus, nigris, subcutaneo-erumpentibus, 0,5 mm. d.; sporulis numerosis, ovoideis, basi truncatis, apice hyalino-apiculatis, 2-septatis, vix constrictis, brunneis, 20 = 10, loculo medio ceteris paullo angustiore.

Hab. in caulibus emortuis Lespedezæ Yunnan Sinarum (Ab. Delavay).

50. **Hendersonia tenella** Schroet. Pilze Labrad. p. 19. — Peritheciis 6108
sparsis, minutis, nigris; sporulis fusoideis, hinc inde curvulis, 3-septatis, olivaceo-brunneis, 20-25 = 3-4, utrinque obtuse rotundatis.

Hab. in foliis emortuis Alsines vernæ v. hirtæ, Okak in Labrador (E. Wenck).

51. **Hendersonia Phlogis** Brun. Esp. Sphærops. p. 3. — Peritheciis 6109
sparsis vel adproximatis, globulosis, nigris, subcutaneo-erumpentibus, perforatis; sporulis ovoideo-oblongis, 3-septatis, ad septa constrictis, 15 = 4-5, flavis.

Hab. ad caules emortuos Phlogis paniculatæ, Saintes Galliæ.

52. **Hendersonia Epilobii** Fautrey in Rev. Myc. 1889, p. 152. — Pe- 6110
ritheciis seriatim dispositis, oblongis, epidermidem maculantibus,

poro pertusis; sporulis ovoideo-oblongis, 3-septatis, 12-16 ≈ 5-6, flavis; basidiis hyalinis usque 24 ≈ 2.

Hab. in caulibus Epilobii tetragoni, Noidan, Côte-d'Or Galliæ.

53. **Hendersonia Marrubii** Brun. Champ. Saint. p. 339. — Peritheciis 6111
sparsis, globulosis, nigris, perforatis; sporulis oblongis, 3-septatis, constrictis, 14 ≈ 5, brunneis.

Hab. in caulibus emortuis Marrubii vulgaris, Saintes Galliæ.

54. **Hendersonia Acanthi** Pat. in Rev. Myc. 1886, p. 182. — Peri- 6112
theciis epidermide tectis, minutis, ostiolo lato apertis; sporulis primo viridulis, continuis, dein rufo-brunneis, 3-septatis, 16-20 ≈ 6-8.

Hab. in caulibus emortuis Adathodæ, Yunnam Sinarum (Ab. Delavay). — Verisimiliter status pycnidicus *Leptosphæriæ Acanthi*.

55. **Hendersonia varians** Cooke et Hark. in Grevillea XIII, p. 112. 6113
— Caulicola; peritheciis gregariis, erumpentibus, demum seminudis, depresso-globosis, atris; sporulis ovalibus, uniseptatis dein bivel triseptatis, magnitudine variabilibus, brunneis, subopacis, 12-15 ≈ 7,5, non constrictis.

Hab. in caulibus Sphaceliæ in California (Harkness). — Affinis *H. diversisporæ* sed ab ea distinguenda.

56. **Hendersonia heterophragmia** Ell. et Ev. Journ. Myc. 1889, p. 149. 6114
— Peritheciis erumpentibus, superficialibus, subseriatis, globosis, collabascentibus, 0,7 mm. diam., ostiolo papillato; sporulis ellipsoideis vel elliptico-oblongis, brunneis, 1-3-septatis, 12-16 ≈ 5-7.

Hab. in ramulis emortuis Sarcobati vermiculati prope Great Falls, Mont. Amer. bor. (Anderson).

III. *In Monocotyledoneis, Acotyledoneis et in fimo.*

57. **Hendersonia monspeliensis** Celotti Mic. Montpell. p. 27. — Pe- 6115
ritheciis sparsis, globosis, superficialibus, nigris, ostiolo brevi instructis, 0,3 mm. diam.; sporulis cylindricis, utrinque acutis, 6-7-septatis, 25-28 ≈ 5-7, guttulatis, brunneis.

Hab. in foliis aridis Sabaleos Palmetto, Montpellier Galliæ.

58. **Hendersonia Sabaleos** Ces. — Syll. III, p. 434. — Var. **Phœni-** 6116
cis Sacc. n. v.: sporulis cylindraceo-oblongis, utrinque rotundatis, 3-septatis, leniter constrictis, fuligineis, 12-4-5.

Hab. in foliis Phœnicis dactyliferæ, Coimbra Lusitaniæ (Moller, una cum *Coniothyr. Palmarum* in Myc. Univ. n. 1482).

59. **Hendersonia peregrina** Fautr. Rev. Myc. 1892, p. 8. — Perithe- 6117

ciis exiguis, sparsis, hinc inde aggregatis, nitide nigris, emergentibus, dein superficialibus; sporulis cylindraceis, obtusule attenuatis, rectis v. subflexuosis, flavidis, 3-septatis, 20-29 × 3.

Hab. in pinnis foliorum Phœnicis dactyliferæ in cistam (*couffin*) contextis, quæ ex Algeria allata fuit.

60. **Hendersonia Bromeliæ** Pat. Bull. Soc. Myc. 1888, p. 123. — Peritheciis fragilibus, nigris, carbonaceis, hinc inde aggregatis maculasque latas atras formantibus; sporulis cylindraceis, 8-9 = 5, obtusis, utrinque rotundatis, 3-septatis, loculo medio brunneo, ceteris subhyalinis. 6118

Hab. in foliis Bromeliæ cujusdam, Puerto Zamuro Venezuelæ.

61. **Hendersonia microsticta** Berk. in Crypt. Antarct. p. 58, t. 68, f. 1. — Peritheciis minutis, nigris, globosis, epidermide obtectis; sporulis pellucidis, irregularibus, plerumque lanceolatis, utrinque acutis, 3-septatis. 6119

Hab. in caule dealbato Chrysobactri Rossii et in scapis Antherici in regione antarctica (Hooker).

62. **Hendersonia asparagina** Fautrey Rev. Myc. 1889, p. 68. — Peritheciis numerosis, punctiformibus, nigris, poro pertusis; sporulis ellipsoideis, obtusis, flavidis, triseptatis, 22-25 × 4, basidiis hyalinis suffultis. 6120

Hab. in caulibus siccis Asparagi officinalis, Noidan, Côte-d'Or Galliæ. — «An eadem ac *H. Asparagi?*»

63. **Hendersonia Asparagi** Passer. Diagn. F. N. IV, n. 70 (1888). — Peritheciis in maculis albidis punctiformibus, atris; sporulis subcylindricis, 3-septatis, melleis, 22,5 × 2,5-3. 6121

Hab. in caulibus Asparagi officinalis in horto botanico, Parma. — An pycnidium *Leptosphæriæ punctoideæ* Karst. in iisdem caulibus obviæ?

64. **Hendersonia scirpicola** Cooke et Hark. in Grevillea. — Culmicola; peritheciis minutis, punctiformibus, atris, semiimmersis, pertusis; sporulis cylindraceis, utrinque rotundatis, triseptatis, constrictis, fuscis, 20 = 5. 6122

Hab. in culmis Scirpi, in California (Harkness).

65. **Hendersonia heterospora** Passer. Diagn. F. N. IV, n. 66. — Peritheciis sparsis, sæpe seriatim digestis, primo tectis, dein erumpentibus, innatis, subglobosis, atris, contextu membranaceo, celluloso, fuscidulo; sporulis castaneo-fuscis, longitudine varia, brevioribus navicularibus, triseptatis, 12 = 5, immixtis, longioribus fusiformibus, 3-5- raro 7-septatis, 18-20 × 5. 6123

Hab. in vaginis emortuis Phragmitis communis, Vighef-fio pr. Parma.

66. **Hendersonia leptospora** Trail Trans. Crypt. Scot. 1889, p. 45. — 6124
Peritheciis innatis, sparsis, ostiolo breviter papillato; sporulis clavato-fusoideis 10-13 ≃ 2, pallide brunneis, 3-septatis, eguttulatis.

Hab in foliis emortuis Phragmitis communis ad ripas Loch Achray Scotiæ.

67. **Hendersonia sparsa** Wint. in Hedw. 1885, I. — Peritheciis spar- 6125
sis, immersis, depressis vel subglobosis, ostiolo demum late aperto erumpentibus, atris, membranaceis, 150-180 ≃ 90-120; sporulis oblongo-subcylindricis, utrinque rotundatis, rectis, biseptatis, ad septa non vel vix constrictis, pallidissime dilutissimeque nigricantibus, 12-14 ≃ 4.

Hab. in spathis aridis Bobartiæ spathaceæ in monte Tabulari Promont. Bonæ Spei (Mac-Owan).

68. **Hendersonia hirta** Schroet. Hedw. 1890, p. 61. — Peritheciis 6126
globosis, 0,3 mm. diam., hyphis deflexis, 3-4 μ. cr., vestitis; ostiolo brevi globuloso; sporulis fusoideis utrinque obtuse tenuatis, curvulis, 7-septatis, 24-28 ≃ 3-4, læte flavo-brunneis.

Hab. in culmis vetustis Setariæ verticillatæ, Belgrad Serbiæ (Wojnowic). — Ob perithecia vestita species hæc aptius habenda est ut novi generis typus (**Wojnowicia** Sacc.).

69. **Hendersonia Luzulæ** West. — Sec. cl. Bomm. et Rouss. (Contr. Myc. Belg. IV, p. 287) species hæc est phæospora, hinc non *Stagonospora* ut ex diagn. West. autumaveram (Syll. III, p. 451). Sporulæ maturæ sunt cylindraceæ, brunneæ, triseptatæ, haud constrictæ, 15 ≃ 3-4.

70. **Hendersonia culmifraga** Fautr. Rev. Myc. 1892, p. 9. — Perithe- 6127
ciis compressis, seriatim elongatis, tectis, dein erumpentibus, 0,2-0,5 mm. longis; sporulis cylindraceis, attenuatis, rectis, 3-septatis, guttulatis, flavis, 15-20 ≃ 2-3.

Hab. in culmis Uniolæ latifoliæ in hortis, Noidan, Côte-d'Or Galliæ.

71. **Hendersonia calospora** Fautr. Rev. Myc. 1892, p. 9. — Perithe- 6128
ciis amphigenis, tectis, papillatis, griseo-flavidis; sporulis fusoideis, medio inflatis, flexuosis, flavis, 6-7-septatis, constrictis, 55-65 ≃ 6.

Hab. in foliis Uniolæ latifoliæ in horto botanico, Noidan, Côte-d'Or Galliæ. — Adsunt ibidem var. in Poa sudetica et Ammophila (in hac spor. 7-8-septatæ, 40-70 ≃ 5-6).

72. **Hendersonia Stipæ-pennatæ** Fautrey Rev. myc. 1889, p. 134. — Peritheciis sparsis v. 3-5 congregatis, poro exiguo pertusis; sporulis cylindraceis, obtusis, flavis, (in perith. sparsis) 7-septatis 32-36 × 4-5, (in perith. congregatis) 5-septatis, 20-25 × 4. 6129

Hab. in foliis Stipæ pennatæ in rupibus Noidan, Côte-d'Or Galliæ. — Perithecia intra folia plicata occurrunt; hinc folia longitrorsum findenda sunt, ut perithecia pateant.

73. **Hendersonia Agropyri** Rostr. Fung. Groenl. p. 571. — Peritheciis magnis, gregariis; sporulis fusoideo-cylindraceis, distincte 3-septatis, 25-35 ≃ 6-8, fuligineis. 6130

Hab. in culmis vaginisque Agropyri violacei, Ikertok ved Holstensborg Groenlandiæ.

74. **Hendersonia Equiseti** Trail in Scot. Nat. I, p. 76. — Peritheciis tectis, ostiolo minuto sphæricis, circ. 180 mm. diam.; sporulis pallide brunneis, fusiformibus vel cylindraceis, utrinque obtusis, 12-20 × 2-3, triseptatis. 6131

Hab. in caulibus emortuis Equiseti, Aberdeen Scot.

75. **Hendersonia trabicola** Sacc. Syll. III, p. 441 — var. **stercorea** March. Champ. copr. VI, p. 11. — Sporulis minoribus, olivaceo-hyalinis, 9 ≃ 3,7, rarius 12 ≃ 3,7, uni- vel tri-septatis. 6132

Hab. in ligno stercorato, Aerschot Belgii.

COUTUREA Cast. — Syll. III, p. 442.

1. **Couturea dimerosporioides** Speg. F. Guar. II, n. 175. — Mycelio epiphyllo, arctiuscule matrici adnato, tenuissimo, late vageque serpente, plus minus obscure olivaceo, ex hyphis tenuissimis, 3-3,5 μ. cr., flexuosis, longissimis, laxe ramuloso-intertextis, olivaceis, septulatis composito; peritheciis sparsis, globulosis, 60-80 μ. diam., siccis, collabascentibus, hyphis paucis, radiantibus vestitis, atris, subverruculosis, coriacellis; contextu indistincto, olivaceo; sporulis fusoideis, rectis v. curvulis, utrinque acutato-obtusatis, 28-34 ≃ 9-10, 3-5-septatis, loculis omnibus subæquilongis v. tertio v. quarto supero longiore subcrassioreque, fuligineis; basidiis hyalinis, 5-10 × 2. 6133

Hab. ad folia viva Billbergiæ v. Pitcairniæ cujusdam in silvaticis pr. Paraguarì Brasiliæ. — Status stylosporicus *Asteridii dimerosporioidis* Speg.

2. **Couturea biseptata** Speg. F. Puigg. n. 423. — Peritheciis hypophyllis, gregariis, superficialibus, fibrillis mycelialibus (obsoletis?) atris, flexuosulis, 4-6 μ. cr., parcissimis cinctis, globosis, 100-150 6134

μ. diam., astomis, nigris; sporulis elliptico-lanceolatis, 2-septatis, 40–45 ≃ 14–15, hyalinis dein rufescentibus; basidiis concoloribus, 5–10 × 4–5.

Hab. ad folia subcoriacea viva plantæ ignotæ cujusdam in dumetis prope Apiahy Brasiliæ. — An huc *Meliola cymbisperma*?

CRYPTOSTICTIS Fuck. — Syll. III, p. 443.

1. **Cryptostictis sarmenticia** Bomm. Rouss. Sacc. Contr. Myc. Belg. IV, p. 288. — Peritheciis sparsis, subcutaneis, erumpentibus, globulosis, glabris, poro pertusis, 160–255 μ. diam.; sporulis anguste clavatis, curvulis, 4-6-septatis, hyalinis, loculo supero in rostrum tenue, curvum producto, loculo infero acuminato, 33–42 ≃ 4,5-5. 6135

Hab. in sarmentis Clematidis Vitalbæ, Yvoir Belgii. — Pycnidium *Rebentischiæ unicaudatæ*. Sporulis hyalinis (semper?) a typo generis desciscit.

Sect. 6. Hyalophragmiæ.

STAGONOSPORA Sacc. Syll. III, p. 445.

I. *In Dicotyledoneis lignosis.*

1. **Stagonospora Sumacis** Pass. in litt. Brunaud in Rev. Myc. 1886, p. 142. — Maculis hypophyllis, brunneo-rufis; peritheciis sparsis vel subgregariis, prominulis, subglobosis, nigris; sporulis ovoideis, 3-septatis, hyalinis, 15 × 5. 6136

Hab. in foliis languescentibus Rhois glabræ, Saintes Galliæ.

2. **Stagonospora rhoina** Br. et Har. Rev. Myc. 1891, p. 17. — Peritheciis sparsis, orbicularibus v. punctiformibus, subirregularibus, applanatis, semiimmersis, nigris, 200–300 μ. diam.; sporulis teretioblongis, subinde clavulatis, obtusis, 3–4-septatis, ad septa constrictis, hyalinis, guttulatis, 14–18 × 6-7. 6137

Hab. in cortice Rhois typhini, Clermont-Ferrand, Puy-de-Dôme Galliæ (Héribaud).

3. **Stagonospora Ilicis** Grove in Add. Syll. n. 4468. — Peritheciis hypophyllis, sparsis v. subinde binis ternisve aggregatis, nigris, globoso-lenticularibus, epidermide, demum poro parvo pertusa, velatis; sporulis parvis, cylindraceo-fusoideis, utrinque subacutis, 3-septatis, hyalinis v. in massam collectis dilutissime olivaceis, 14–17 × 2–3. 6138

Hab. in foliis Ilicis Aquifolii, Warley Woods, prope Birmingham Britanniæ. — Sporulæ subinde 20 μ. longæ.

4. **Stagonospora Myricæ** Ell. et Ev. Journ. Myc. 1888, pag. 103. — 6139
Peritheciis hypophyllis, sparsis, erumpenti-superficialibus, depressis, nigris, lucentibus, supra pertusis, 70-80 μ. diam.; sporulis cylindraceis, hyalinis, rectis, utrinque rotundatis, 18–22 = 2,5–3, basidiis brevissimis suffultis.

Hab. in foliis dejectis Myricæ ceriferæ, sociis *Sphærellâ Myricæ* et *Gnomoniâ Myricæ*, Newfield, N. J. Amer. bor.

5. **Stagonospora orbicularis** Cooke Grev. XX, p. 6. — Maculis par- 6140
vis, 5 mm. diam., orbicularibus, pallidis, brunneo-cinctis, amphigenis; peritheciis 3-5 in centro maculæ, epidermide dein rupta tectis, globoso-depressis, nigris; sporulis fusiformibus, utrinque acutis, curvis, 3-5-septatis, ad septum constrictis, 60-70 = 8, hyalinis.

Hab. in foliis Eucalypti, Victoria Australiæ (Martin).

6. **Stagonospora Mali** Delacr. Bull. Soc. Myc. 1890, p. 141. — Peri- 6141
theciis immersis, fuscis, minutis, 95 μ. diam.; sporulis fusoideis, rectis, primum simplicibus, dein 1-septatis, demum 2-3-septatis, ad septa non constrictis, in cirrum longissimum exsilientibus, 14–15 = 2,5–3; basidiis rectis, minutis, 5 μ. circ. longis.

Hab. in foliis exsiccatis Mali communis, Mondoubleau, Loir-et-Cher Galliæ.

7. **Stagonospora Ulicis** Celotti Mic. Montpell. p. 27. — Peritheciis 6142
subgregariis, primum epidermide velatis, dein erumpentibus, globosis, nigris, 100-120 μ. diam.; contextu e cellulis fuligineis, 7-8 μ. diam. formato; sporulis cylindraceis, rectis, 20-25 = 2-3, hyalinis, guttulatis, 3-4-septatis; basidiis brevissimis, 4-5 μ. long.

Hab. in Ulice europæo, Montpellier Galliæ.

8. **Stagonospora Virentis** Ell. et Mart. in Journ. of Myc. 1886, p. 120. 6143
— Peritheciis nigris, subglobosis, gregariis v. sparsis, hypophyllis, 130-160 μ. diam.; sporulis hyalinis, ovatis, utrinque acutis, uniseptatis, 15-16 = 4-6.

Hab. in foliis Quercus virentis, Green Cove Springs in America boreali (Prof. F. L. Scribner).

9. **Stagonospora septorioides** Ell. et Ev. Journ. Myc. 1888, p. 45. 6144
— Peritheciis innato-erumpentibus, parvis, hypophyllis; sporulis cylindraceis, subhyalinis, 3-9-septatis, 15-23 = 4, demum extra perithecia conglobatis.

Hab. in foliis emortuis Quercus imbricariæ, Starkville, Miss. Amer. bor. (Tracy).

10. **Stagonospora Castaneæ** C. Mass. Contr. Mic. Ver. p. 90, t. II, f. 14. — Peritheciis subgregariis, amphigenis, nitidis, minutis, subcutaneis, depresso-conicis, subastomis, circ. 150 μ. diam.; sporulis paraphysibus interpositis, sessilibus, cylindraceis, utrinque rotundato-obtusis, 14-20 ≃ 3, hyalinis, pluriguttatis, demum chlorinis, 1-vel (?)-pluriseptatis. 6145

Hab. in foliis dejectis Castaneæ vescæ, Marcenigo pr. Tregnago in agro veronensi Ital. bor.

11. **Stagonospora ulmifolia** (Pass.) Sacc., *Hendersonia ulmifolia* Pass. in Myc. Univ. n. 1987. — Maculis discoideis parvulis, sparsis, candidis; peritheciis paucis, epiphyllis, punctiformibus, atris; sporulis fusiformibus, triseptatis, hyalinis, 13-17 ≃ 3. 6146

Hab. in foliis vivis Ulmi campestris in viridario publico, Parma.

12. **Stagonospora valsoidea** Sacc. et Briard in Rev. Myc. 1885. — Peritheciis globulosis, innatis, $^1/_4$-$^1/_3$ mm. diam., epidermide nigrefacta tectis; sporulis numerosis, ovato-oblongis, subcylindraceis, obtusissimis, 3-septato-constrictis, diu hyalinis, guttulato-granulosis, demum subfuligineis, pellucidis, 16-17 ≃ 6-7; basidiis 12-16 ≃ 4. 6147

Hab. in ramulis emortuis Platani orientalis, Troyes Galliæ (Briard). — An potius *Hendersonia?*

13. **Stagonospora Fici** Passer. Diagn. F. N. IV, n. 117. — Peritheciis hypodermiis, subgregariis v. lineari-seriatis, pustulatim erumpentibus, tandem cortice consumpto, nudis, ligno insculptis, subglobosis, atris; contextu celluloso, olivaceo; osticlo vario, papillari, crassiusculo aut compresso; sporulis fusiformi-subclavatis, rectis v. curvulis, triseptatis, hyalinis, 20-22,5 ≃ 3; basidiis bacillaribus, subæquilongis. 6148

Hab. in ramulo sicco decorticato Fici Caricæ, Parma Italiæ borealis.

14. **Stagonospora cupularis** Karst. Sphærops. Fenn. p. 32, *Diplodina* Karst. in Hedw. 1885, p. 73. — Peritheciis superficialibus, confertis vertice collapsis, cupuliformibus, ostiolo papillato, atris, glabris, opacis, minutis, circiter 0,3 mm. diam.; sporulis ellipsoideis, 1-5-septatis v. biguttulatis, hyalinis, 15-17 ≃ 6-9. 6149

Hab. in ligno secto betulino ad Mustiala Fenniæ.

15. **Stagonospora Pini** Grove New not. Fung. p. 8, n. 52. — Peritheciis epiphyllis, tectis, sparsis, rotundatis, atris; sporulis pallide luteolis, singulis hyalinis, cylindraceo-fusoideis, utrinque subobtusis, 1-dein 3-septatis, 16-20 ≃ 3-4. 6150

Hab. in foliis Pini silvestris, Hibernia Brit. (H. W. Lett).

16. **Stagonospora assans** Passer. Diagn. F. N. IV, n. 118. — Maculis griseis, vagis, confluentibus, matricem obducentibus et tandem exaridis; peritheciis gregariis, tectis, minutis, pustuliformibus, atris; sporulis elongatis, utrinque rotundatis, uni-triseptatis, ad septa non v. levissime constrictis, dilutissime melleis, numquam guttulatis visis, 10-12 ≃ 2,5-3; basidiis non visis. 6151

Hab. in Cerei et Echinocacti sp., quas necat, in horto botanico parmensi Ital. bor.

17. **Stagonospora Dulcamaræ** Passer. Diagn. F. N. IV, p. 42. — Peritheciis sparsis, solitariis v. paucis gregariis, concrescentibus, rugosulis, ad basim contractis, nigris; contextu celluloso, amœne cyaneo; sporulis fusiformibus, curvis, 5-septatis, hyalinis, 30 ≃ 4. 6152

Hab. in ramis emortuis Solani Dulcamaræ, Parma Ital. bor. — Probabiliter status pycnidicus *Gibberellæ* sp.

II. *In Dicotyledoneis herbaceis.*

18. **Stagonospora Anemones** Pat. in Rev. Myc. 1886, p. 181. — Peritheciis sparsis, $^1/_2$-1 mm. diam., nigris, lucidis, primo epidermide tectis, demum liberis, ostiolo prominulo donatis; sporulis cylindraceis, uno apice vix attenuatis, hyalinis, rectis v. vix curvulis, 3-septatis, 26-30 ≃ 3-4. 6153

Hab. in petiolis emortuis Anemones, Yunnam Sinarum (Ab. Delavay).

19. **Stagonospora Trifolii** Fautrey in Rev. Myc. 1890, pag. 167. — Peritheciis innatis, papillatis, in macula grisea erumpentibus; sporulis cylindraceis, 3-septatis, hyalinis, guttulatis, 16-22 ≃ 3-4. 6154

Hab. in foliis Trifolii repentis, Noidan, Côte-d'Or Galliæ.

20. **Stagonospora Dearnessii** Sacc., *Stagonospora Trifolii* Ell. et Ev. Prof. Acad. Phil. 1891, p. 82, an et Fautr.? — Maculis atro-brunneis, dein pallidioribus, magnis, folii venulis plus minus limitatis; peritheciis innatis, supra subprominulis, pallidis; sporulis cylindraceis, 2-4-guttatis, 12-20 ≃ 3-4, hyalinis. 6155

Hab. in foliis vivis Trifolii repentis, London Canada Amer. bor. (Dearness). — « An satis diversa a præcedente? ».

21. **Stagonospora Fragariæ** Br. et Har. Rev. Myc. 1891, p. 17. — Maculis epiphyllis, brunneis, irregularibus, plus minus latis, uniformiter coloratis, inferne obsoletioribus; peritheciis sparsis innatis, punctiformibus, nigricantibus, 80-100 μ. diam., vix manifestis; 6156

sporulis cylindraceis, obtusis, rectis v. flexuoso-curvulis, 3-septatis, vix constrictis, hyalinis, minute guttulatis, 32–40 ≃ 6-8.

Hab. in foliis Fragariæ vescæ, Ville-sur-Terre, Aube Galliæ.

22. **Stagonospora carpathica** Bäuml. F. Schemn. p. 3. — Maculis rotundatis vel irregularibus, arescendo dealbatis, fusco-marginatis; peritheciis sparsis, globulosis, 120–180 μ. diam.; contextu distincte parenchymatico, ochraceo-fuligineo; ostiolo incrassato; sporulis cylindraceis, rectis v. inæqualiter flexuosis, utrinque rotundatis, 1-4-septatis, hyalinis, 14-20 ≃ 4; basidiis 8-10 ≃ 2, hyalinis. 6157

Hab. in foliis Meliloti albæ, Dolina pr. Prencow Hungariæ.

23. **Stagonospora Petasitidis** Ell. et Ev. Proc. Phil. Acad. 1891, pag. 81. — Peritheciis epiphyllis, sparsis, hemisphæricis, nigris, grosse parenchymaticis, levibus, supra late pertusis, circ. 1/3 mm. diam.; sporulis clavato-cylindraceis, guttulatis, dein 3–4-septatis, 55-70 ≃ 5-6,5, hyalinis. 6158

Hab. in foliis viventibus Petasitidis palmatæ, London Canada Amer. bor. (J. Dearness).

24. **Stagonospora Chiliotrichi** Speg. F. Fueg. n. 409. — Peritheciis sparsis, epiphyllis, immersis, non v. vix prominulis, lenticularibus, 80–90 μ. diam., tenui-membranaceis; contextu dense parenchymatico; ostiolo minuto, impresso; sporulis cylindraceis, utrinque obtusiusculis, 15-20 ≃ 2,5, rectis v. leniter inæquilateralibus, triseptatis, non constrictis, hyalinis. 6159

Hab. ad folia emortua Chiliotrichi amelloidis in pratis pr. Peuguin rookery in Staten island Fuegiæ.

25. **Stagonospora deplanata** Br. et Sacc. sp. nov. — Peritheciis dense gregariis e globoso patellato-depressis, minute papillatis, epidermide diaphana velatis, nigris, nitidulis, 120-160 μ. diam.; sporulis fusoideis, curvulis, utrinque obtusiusculis, 16-24 ≃ 3-4, typice 4-guttulatis, hyalinis; basidiis non visis. 6160

Hab. in caulibus siccis Gentianæ luteæ, Puy-de-Dôme Aube Galliæ.

26. **Stagonospora Chenopodii** Peck 40 Rep. p. 60. — Maculis paucis, latis, brunneis vel flavido-brunneis; peritheciis minutis, 100-125 μ. lat., nigris; sporulis oblongis, obtusis, 2-3-septatis, ad septa constrictis, hyalinis, 20-25 ≃ 7,5-11,5. 6161

Hab. in foliis vivis Chenopodii albi, Menands Amer. bor.

III. *In Monocotyledoneis et Acotyledoneis.*

27. **Stagonospora Iridis** C. Massal. Bot. Centr. 1890, n. 26, p. 386. — 6162

Peritheciis globosis (?), membranaceis, amphigenis, pallide luteolis, 70-110 μ. diam., hypodermeis, ostiolo latiusculo, 20-30 μ. lat., pertusis, in maculis ellipticis, exaridis, olivaceo-marginatis, dense subseriato-insidentibus; sporulis numerosis, madore subcirrose ejaculatis, majusculis, 26-30 = 3,5-6, cylindraceis, hyalinis, rectis v. subfalcatis, interdum parumper subsigmoideis, guttulatis, demum 1-3-septatis, utrinque rotundatis.

Hab. in foliis Iridis germanicæ (v. squalentis?) pr. Tregnago in agro veronensi Ital. bor. — Ab affini *St. Asphodeli* differt præsertim magnitudine sporularum.

28. **Stagonospora Cyperi** Ell. et Tracy Proc. Phil. 1891, p. 81. — 6163
Peritheciis minutis, globosis, tabacinis, in greges pustuliformes, 1 mm. v. ultra diam. confertis, epidermide dein supra brunnea, tandem lacerato-aperta tectis; sporulis fusoideis, 2-3-guttatis, 12-16 = 2,5-3, hyalinis.

Hab. in calamis Cyperi cylindrici, Starkville, Miss. Amer. bor. (Tracy).

29. **Stgaonospora cirrata** Pat. in Rev. Myc. 1886, p. 83. — Perithe- 6164
ciis sparsis v. in macula nigra gregariis, atris, 200-300 μ. diam., epidermide tectis, ostiolo albescente; sporulis cylindraceis fusoideis v. utrinque rotundatis, 1-5-septatis, 12-15 μ. longis, hyalinis, numerosis, in cirrum vermiformem expulsis.

Hab. in foliis emortuis Caricis Amphoræ in Japonia.

30. **Stagonospora aquatica** Sacc. Syll. III, p. 452 — var. **sexseptata** 6165
Trail Scot. Nat. 1887, p. 88 et Grev. XV, p. 109. — Peritheciis 150 μ. diam.; sporulis 6-septatis, 32-35 = 5-6.

Hab. in caulibus emortuis Scirpi lacustris pr. Aberdeen Scotiæ.

31. **Stagonospora Heleocharidis** Trail in Scot. Nat. I, p. 76. — Pe- 6166
ritheciis sparsis, subepidermicis, ostiolo minuto, sphæricis, 130-170 mm. diam.; sporulis pallide luteolis, fusiformibus, 30-40 = 6-7, 5-7-septatis.

Hab. in foliis et culmis emortuis Heleocharidis palustris, Aberdeen Scot.

32. **Stagonospora neglecta** (West.) Sacc. Syll. III, p. 455. — Var. 6167
colorata Brun. in Rev. Myc. 1886, p. 142. — Peritheciis sparsis, minutis, numerosis, globulosis, epidermide non decolorata nec inflata tectis, dein suberumpentibus, perforatis; sporulis fusiformi-bacillaribus. 3-septatis, subhyalinis vel vix coloratis, 20-22,5 = 3.

Hab. in vaginis Phragmitis communis, Chaniers Galliæ. — An species nova?

33. **Stagonospora simplicior** Sacc. et Ber. in Roum. F. Gall. n. 4086. 6168
— Peritheciis minutis, innatis, intus albis, in lineas parallelas plus minus longas gregariis, epidermide longitudinaliter fissa tectis; sporulis oblongis, obtusis, hyalinis, 3-septatis, valide granulosis v. loculis grosse 1-guttatis, ad septa irregularia constrictis, rectis v. subcurvulis, 32-38 ≃ 8-9; basidiis brevissimis.

Hab. in culmis Phragmitis communis, Méry-sur-Seine Galliæ (Briard).

34. **Stagonospora hydrophila** Br. et Har. Rev. Myc. 1890 Oct. — 6169
Peritheciis sparsis, oblongis, lirelliformibus, nigris, ¾-1 mm. long., ¼-⅓ mm. lat., aureola amphigena griseolo-pallida cinctis; sporulis cylindraceo-fusoideis, obtusiusculis, 1-4-septatis, ad septa non vel vix constrictis, subhyalinis, 18-20 ≃ 4.

Hab. in folio emortuo Phragmitis communis, Falaise, Calvados Galliæ (Brébisson).

35. **Stagonospora insularis** Speg. F. Fueg. n. 410. — Peritheciis mi- 6170
nutissimis, densiuscule gregariis ac subseriatis, lenticularibus, 80-90 μ. diam., tenui-membranaceis; contextu parenchymatico, fuligineo; ostiolo latiusculo, 15 μ. diam., impresso; sporulis cylindraceis vel subclavulatis, utrinque obtusissimis, 18-24 ≃ 3, rectis vel flexuosulis, 3-(rarius 4-)septulatis, non constrictis, hyalinis vel perdilute chlorinulis.

Hab. in foliis emortuis Agrostidis magellanicæ in collinis pr. Port Cook in Staten island Fuegiæ.

36. **Stagonospora oxyspora** Speg. F. Fueg. n. 411. — Peritheciis am- 6171
phigenis, sparsis vel gregariis ac seriatis, parenchymate immersis, globulosis, 90-100 μ. diam., tenui-membranaceis, atris, glabris, parenchymaticis; ostiolo minuto, impresso; sporulis fusoideis, utrinque attenuato-acutatis, 24-28 ≃ 3-5, rectis vel subsigmoideis, 5-septatis, non constrictis, hyalinis.

Hab. in foliis emortuis Hierochloæ antarcticæ in pratis prope Port S. John Fuegiæ.

37. **Stagonospora subseriata** (Desm.) Sacc. — Syll. III, p. 454 — var. 6172
Moliniæ Trail Trans. Crypt. Scot. 1889, p. 45. — Peritheciis numerosis numquam confluentibus, nec distincte seriatim dispositis ut in typo; sporulis vulgo 4-5-septatis, 28-35 ≃ 6-7.

Hab. in foliis Moliniæ cæruleæ, Damally prope Loch Awe Scotiæ.

38. **Stagonospora curvula** Bomm. Rouss. Sacc. Contr. Myc. Belg. IV, p. 287. — Peritheciis innatis, subglobulosis, 300-450 μ. diam., e nigro rubescentibus, dense aggregatis, subinde confluentibus, epidermide griseola tectis, poro lato pertusis; sporulis lineæribus, obtusis, curvulis, initio 1-septatis, dein 3-septatis, 12-20 × 3, chlorinis. 6173

Hab. in culmis graminum exsiccatorum, Watermael Belgii.

39. **Stagonospora equisetina** Trail Scot. Nat. 1887, p. 88 et Grev. XV, p. 109. — Peritheciis innatis, sparsis, globosis, 80 μ. diam., brunneis; sporulis rectis, fusoideo-cylindraceis, 18-24 × 4-5, subacutis, 6-8-guttatis, leniter 5-7-septatis, hyalinis. 6174

Hab. in caulibus emortuis Equiseti palustris, Corbie Loch Scotiæ.

40. **Stagonospora Equiseti** Fautrey in Rev. Myc. 1890, pag. 124. — Peritheciis subseriatis, subcutaneis; sporulis cylindraceis utrinque attenuatis, hyalinis, 3-septatis, 20-25 × 4-5. 6175

Hab. in caulibus siccis Equiseti limosi pr. Beaune Côte-d'Or Galliæ.

KELLERMANNIA Ell. et Ev. in Journ. of Myc. 1885, p. 153 (Etym. a cl. Dr. W. A. Kellerman generis detectore). — Perithecia immersa, membranacea, ostiolata. Sporulæ cylindraceæ, latæ, septatæ, subhyalinæ, apice appendicula subuliformi præditæ.

1. **Kellermannia yuccogena** Ell. et Ev. in Journ. of Myc. 1885, p. 154, *Discula anomala* (Cooke) Sacc. Syll. III, pag. 677. — Perithecia membranacea, circiter 2 mm. diam., globosa, matrice immersa, vix conspicua, ostiola papilliformia, minuta, atra, epidermidem vix rumpentibus; sporulæ cylindraceæ, granulosæ, 45-50 × 10-12, sursum in setam subuliformem, 18-25 μ. longam contractæ. 6176

Hab. in foliis emortuis Yuccæ angustifoliæ, Manhattan, Kansas Amer. bor.

2. **Kellermannia Polygoni** Ell. et Ev. in Journ. of Myc. 1886, p. 111. — Peritheciis erumpentibus, membranaceis, contextu laxe parenchymatico, atris, depresse globosis, ½ mm. diam., ostiolo papillato, perforato; sporulis lanceolatis, 1-septatis, 30-40 × 3-4 (cum appendicula), basi rotundatis, hyalino-luteolis, primo granulosis et nucleatis, gradatim citra medium in appendiculam subuliformem, rectam, gracilem contractis. 6177

Hab. in caulibus emortuis Polygoni polymorphi, Blue Canon, Calif. Amer. bor. (Harkness).

3. **Kellermannia Sisyrinchii** Ell. et Ev. in Journ. of Myc. 1886, p. 111. 6178

— Peritheciis sparsis, minutis, 150 μ. diam., epidermide tectis, subglobosis, parte superiore prominulis dein collapsis, apice perforatis, membranaceis, contextu dense parenchymatico, quam *K. Polygoni* pallidiore; sporulis oblanceolatis, hyalino-luteolis, 3-septatis, 50-60 = 5-6, cum appendicula circiter sporulæ dimidium æquante.

Hab. in Sisyrinchio bello, Berkeley, Calif. Amer. bor.

ASTEROMIDIUM Speg. F. Guar. II, n. 174 (Etym. dimin. *Asteromatis*). — Subiculum dematieum phyllogenum tenue; perithecia minuta globosa astoma. Sporulæ elongatæ, pluriseptatæ, hyalinæ. — Ad *Scolecosporas* nutat.

1. **Asteromidium imperspicuum** Speg. F. Guar. II, n. 174. — Subiculo 6179
hypo-(rarius epi-)phyllo, tenuissimo vix perspicuo, arcte matrici adnato, mucedineo-fibroso atro, radiante, plagulas fuscas hinc inde efficiente; peritheciis in plagulas laxe gregariis, superficialibus minutissimis 50-70 μ. diam. globosis, astomis, fuscidulis, postice membranaceo-persistentibus parenchymatico-radiantibus, superne anhystis hyalinis fatiscentibus; sporulis fusoideo-cylindraceis, utrinque acutiusculis 24-30 = 3-3,5, triseptatis, ad septa constrictulis, rectis, hyalinis.

Hab. ad folia viva Sapindaceæ cujusdam in dumetis prope Guarapì Brasiliæ. — Status stylosporicus *Hyalodermatis imperspicui.*

Sect. 7. Dictyosporæ.

CAMAROSPORIUM Schulz. — Syll. III, p. 459.

I. *In Dicotyledoneis lignosis.*

1. **Camarosporium cistinum** Cooke in Grevillea XIV, p. 5. — Grega- 6180
rium, cortice interiore immersum; peritheciis globosis, atris, ostiolo conico, corticem perforante præditis, subinde in lineas irregulares dispositis; sporulis ellipticis, elongatis, triseptatis, ad septa non constrictis, interdum cellula centrali longitudinaliter divisa brunneis, 15-18 = 5-7.

Hab. in ramulis Cisti laurifolii, Kew Britanniæ.

2. **Camarosporium Caraganæ** Karst. in Hedw. 1885, pag. 74. — Pe- 6181
ritheciis gregariis, rarius sparsis vel concrescentibus, superficialibus, forma variis, sæpe inæqualibus, atris, glabris, 0,3-0,4 mm. diam.; sporulis ellipsoideis, sæpe inæqualibus, 3-5-septatis, accedente septulo 1 (rarissime 2) longitudinali, fuscis, 14-22 = 9-12.

Hab. in ramis decorticatis Caraganæ arborescentis, Aboa Fenniæ. — Statum pycnidicum *Cucurbitariæ Caraganæ* verisimiliter sistit.

3. **Camarosporium Retamæ** Trab. in litt. — Peritheciis dense gregariis, tectis dein erumpentibus, globosis, atris, intus farctis; sporulis oblongo-ellipsoideis, utrinque rotundis, 18–22 = 8–10, 3-4-septato-muriformibus, ad septa subconstrictis, olivaceo-fuscis. 6182

Hab. in caulibus emortuis Retamæ sphærocarpæ, Alger Africæ bor. (Trabut). — Affine *C. Triacanthi.*

4. **Camarosporium Laburni** (West.) Sacc. nec *C. Laburni* Sacc. Cfr. spec. seq., *Hendersonia* West. V, Not. quelq. Hyp. Belg. p. 13, fig. 2. — Peritheciis minutis, brunneis, sparsis immersis, peridermium valde elevantibus, ostiolo papillato erumpente, peridermii laciniis cincto; sporulis copiosis brunneis, ovoideis, 2-4-septatis septoque singulo longitudinali divisis, 20-25 = 10-12. 6183

Hab. ad ramos Cytisi Laburni, Courtrai Belgii.

5. **Camarosporium laburnicum** Sacc. *C. Laburni* Sacc. Syll. III, p. 460, nec West. — Cum species Westendorpii præcedens diversa sit ab homonyma mea et anterior, nomen meum mutare coactus sum.

6. **Camarosporium Cytisi** Berl. et Bres. Micr. Trid. p. 74, t. VI, f. 8. — Peritheciis botryoideo-gregariis, e mutua pressione angulosis, raro sparsis, $^1/_3$–$^1/_2$ mm. diam., nucleo primo albo, dein atro farctis, globoso-conoideis, epidermide tectis, dein ea rupta pustulatim prominentibus; sporulis ovoideo-elongatis, transverse 4-7-septatis, ad septa non constrictis, rectis v. curvulis et tum subcylindriceis, utrinque rotundatis, loculis 1-3 v. subinde fere omnibus septo longitudinali, sæpe obliquo divisis, 20-23 = 9-10, luteo-olivascentibus. 6184

Hab. in ramis emortuis Cytisi alpini, Val di Sole Trento.

7. **Camarosporium Pseudacaciæ** Brun. Misc. mycol. p. 19. — Peritheciis tectis, dein erumpentibus, nigris, globosis, ad stroma fuligineum, filamentosum, epidermide tectum gregariis; sporulis oblongo-ellipsoideis, 3–5-septatis, 20-28 = 6-8, ad septa constrictis, loculis 1–2 longitudinaliter 1–septatis. 6185

Hab. in ramis emortuis Robiniæ Pseudacaciæ, Clermont-Ferrand Galliæ (Héribaud).

8. **Camarosporium multiforme** Karst. Sphærops. Fenn. p. 31. — Peritheciis gregariis v. confertis, basi insculpta oblongatis v. rotundatis difformibus astomis, atris, 0,3 mm. diam.; sporulis subellipsoideis vel ovoideis, inæqualibus, 3–5–septatis, accedente septo unico longit. flavido-fuligineis, pellucidis, 15–21 = 8–10. 6186

Hab. in ramis decorticatis Piri Mali pr. Aboam Fenniæ.

9. **Camarosporium aculeorum** Passer. Diagn. F. N. IV, n. 73. — Peritheciis sparsis subepidermoideis, lenticularibus, atris, 175-200 μ. diam., basi hyphis fuligineis cinctis; sporulis ellipticis vel cuneiformibus, 4-septatis, subcurvulis, loculis nonnullis septulo longitudinali divisis, 18-22,5 × 9-11. 6187

Hab. in aculeis Rosæ caninæ, Vigheffio pr. Parma Ital. bor.

10. **Camarosporium Spirææ** Cooke in Grevillea XIII, p. 97. — Sparsum; peritheciis majusculis, epidermide elevata tectis, globosis, atris, erumpentibus; sporulis ellipticis, plerumque triseptatis, 1-2 transverse septatis, non constrictis, pallide brunneis, 18 × 7,5. 6188

Hab. in ramulis Spirææ callosæ et S. opulifoliæ, Kew Britanniæ.

11. **Camarosporium Coronillæ** Sacc. et Sp. Syll. III, p. 460. — Var. **Spirææ** Bäuml. Crypt. Presb. p. 17. — Peritheciis aggregatis, rarius sparsis, sub epidermide nidulantibus, globulosis, atris; ostiolo papilliformi, epidermide perforante; sporulis oblongis, utrinque rotundatis, 16-20 × 6-8, triseptatis, muriformibus, fuligineis. 6189

Hab. in ramulis aridis Spirææ sp. lignosæ, dein sociâ *Dothideâ Sambuci*, Presburg. — «An diversa a præcedente?».

12. **Camarosporium Limoniæ** Cooke in Grevillea XIII, pag. 97. — Gregarium; peritheciis cuticula elevata, dein fissa, tectis, depressis, brunneis, vix papillatis; sporulis ellipticis, utrinque rotundatis, triseptatis, interdum cellula longitudinaliter divisa, tenuiter ad septa constrictis, castaneis, 22-28 × 7-10, primo beviter pedicellatis. 6190

Hab. in ramulis Citri trifoliatæ, Kew Britanniæ.

13. **Camarosporium Eucalypti** Winter in Rev. Myc. 1886, p. 212. — Peritheciis in macula irregulari, sæpe angulata, pallide fusca vel cinereo-fusca determinata, linea obscuriori limitata, usque 7 mm. diam., gregariis vel aggregatis, plerumque epiphyllis, erumpentibus, globosis, atris, membranaceis, poro pertusis, 130-160 μ. diam., sæpe confluentibus; sporulis numerosissimis, late ovoideis vel piriformibus, medio vel extra medium transverse uniseptatis, una cellula demum septo longitudinali, sæpe obliquo prædita, fuscidulis, guttulatis, 12,5-14 × 7-9, stipite filiformi, brevi, hyalino suffultis. 6191

Hab. in foliis vivis Eucalypti prope Melbourne Australiæ (H. Watts, comm. Reader).

14. **Camarosporium Calycanthi** Sacc. Bomm. Rouss. Contr. Myc. Belg. IV, p. 86. — Peritheciis subglobosis, sparsis, minutis, nigris, erum- 6192

pentibus, poro pertusis; sporulis ellipsoideis v. oblongis, brunneis, 3-4-septatis, dein muriformibus, 15-20 = 7-9, non constrictis.

Hab. in ramulis Calycanthi, Watermael Belgii.

15. **Camarosporium Grossulariæ** Briard et Har. Rev. Myc. 1889, p. 16. 6193
— Peritheciis sparsis, nigris, globulosis, $^1/_3$ mm. diam. epidermide translucide nigrificata tectis; sporulis oblongo-ellipsoideis, 5-septatis, loculis longitudinaliter 1-septatis, ad septa constrictis, brunneo-olivaceis, 28 = 10.

Hab. in ramulis vivis Ribis Uvæ-crispæ, sociâ *Diplodinâ Grossulariæ*, Aube Galliæ (P. Hariot).

16. **Camarosporium Ribis** Briard Fl. crypt. Aub. p. 402. — Perithe- 6194
ciis globosis, sparsis, $^1/_2$-$^3/_4$ mm. diam., nigris, intus albo-cinereis, epidermidem perforantibus et eadem cinctis; ostiolo papillato; sporulis ovato-oblongis, obtusis, 3-5-septatis, muralibus, brunneo-olivaceis, 20-22 = 7-9.

Hab. in ramulo putri Ribis rubri, Villebertin Galliæ. — *Cam. Ribis* Sacc. Bomm. Rouss. Contr. Myc. Belg. IV, p. 86 (in ramis Ribis rubri in Belgio) vix differt sporulis 15-18 = 7,5-10, strato tenui hyalino cinctis et ut plurimum 3-septatis.

17. **Camarosporium antarcticum** Speg. F. Fueg. n. 412. — Perithe- 6195
ciis hinc inde pauci-aggregatis, cortice stromatice infuscato v. nigrificato innatis, primo peridermio tectis, dein erumpentibus, globosis, 180-220 μ. diam., atris, glabris, papillulato-ostiolatis, carnosulo-membranaceis, contextu indistincto; sporulis ovoideis, utrinque obtusiusculis, 18-22 = 6-7, rectis v. subinæquilateralibus, horizontaliter 3-4-5-septatis non constrictis (vix in senectute), loculis 1-2-centralibus septo altero verticali v. obliquo rarius deficiente percursis, fuligineis, loculis extimis pallidioribus.

Hab. ad ramulos dejectos emortuos Berberidis ilicifoliæ in Staten island Fuegiæ.

18. **Camarosporium Berberidis** Cooke in Grevillea XIII, pag. 97. — 6196
Gregarium; peritheciis minutis, subglobosis, cuticula leniter elevata tectis, iis *Phomæ* similibus; sporulis magnitudine variis, primo hyalinis et uniseptatis, ellipticis, non constrictis, demum triseptatis ad septa constrictis, cellula centrali longitudinaliter divisa, pallide brunneis, 22-25 = 6-9.

Hab. in ramulis Berberidis vulgaris, Kew Britanniæ.

19. **Camarosporium berberidicolum** Delacr. Bull. Soc. Myc. 1890, 6197
p. 141. — Peritheciis epidermide tectis, applanato-hemisphæricis, 160-180 = 75-80, poro minuto pertusis; sporulis ovoideis v. ellipsoi-

deis, fuscis, triseptatis, septo uno longitudinali in loculo super. divisis, 13-14 ≃ 7-8; basidiis minutissimis.

Hab. in ramulis Berberidis vulgaris, Rueil, Seine-et-Oise Galliæ. — *Cam. alpino* affine; a *C. Berberidis* sporulis multo brevioribus differt. *Cam. Berberidis* Rich. Cat. Champ. Marne n. 1728 (sine diagnosi) an huc pertineat, non liquet.

20. **Camarosporium Evonymi** Bres. Rev. Myc. 1891, pag. 29, t. 114, f. VII. — Peritheciis gregariis, minimis, subcutaneis, globoso-depressis, nigris, contextu parenchymatico, ostiolo vix prominente pertusis; sporulis oblongo-ovoideis, 3-septato-muriformibus, ad septa subconstrictis, 18-20 ≃ 10; basidiis brevibus. 6198

Hab. in ramis Evonymi europæi pr. Leutschau Hungariæ (Greschik).

21. **Camarosporium Paliuri** Berl. Pug. F. Fior. p. 24. — Peritheciis sparsis v. acervulatis, epidermide valde prominente tectis, magnis, 400-700 μ. diam., contextu laxe parenchymatice, tenui, nucleo atro farctis; sporulis ellipsoideis, 5-septatis, loculis mediis unc v. duobus v. subinde etiam extimis septo longitudinali divisis, 14-16 ≃ 10-12, atro-fuligineis. 6199

Hab. in ramis exsiccatis Paliuri australis prope Firenze Italiæ. — *C. polymorphi* affine sed magnitudine et dispositione peritheciorum diversum.

22. **Camarosporium Staphyleæ** Cooke in Grevillea XIV, pag. 5. — Sparsum, cortice tectum v. absconditum; peritheciis atris, globoso-depressis, raro leniter cuticulam elevantibus; sporulis ellipticis, triseptatis, una vel duabus cellulis centralibus longitrorsum divisis, non constrictis, pallide brunneis, 18-20 ≃ 8. 6200

Hab. in ramulis Staphyleæ pinnatæ et S. trifoliatæ, Kew Britanniæ.

23. **Camarosporium acerinum** E. et E. in Fairm. Contr. Myc. West. N. Y. pag. 53. — Peritheciis prominulis; sporulis 15-26 ≃ 8-10, triseptatis muriformibusque. 6201

Hab. in ramis Aceris, Lyndonville, N. J. Amer. bor. — Affine *C. subfenestrato.*

24. **Camarosporium Pseudoplatani** Brun. Miscell. Mycol. pag. 18. — Peritheciis erumpentibus, subcæspitosis, globuloso-conicis, subglobosis, interdum depressis, papillatis, nigris; sporulis oblongo-elongatis, medio interdum constrictis, 5-7-septatis, loculis 3 longitudinaliter septatis, flavo-fuligineis, 25-36 ≃ 15-17. 6202

Hab. in ramis dejectis Aceris Pseudoplatani, Bellerive, Puy-de-Dôme Galliæ (HÉRIBAUD).

25. **Camarosporium dichomeroides** Brun. Suppl. Sphæroid. p. 3. — 6203
Stromatibus valseis, erumpentibus, suborbicularibus, pulvinatis, brunneo-nigrescentibus, intus pallidioribus v. rubiginosis, corticalibus; sporulis oblongis, 3-septatis, septo longitudinali loculos medios v. unum tantum percurrente, brunneis, loculis apicalibus pallidioribus, 18 ≃ 5.

Hab. in cortice ramorum emortuorum Sambuci racemosæ, Saintes Galliæ. — Habitus *Tuberculariæ*.

26. **Camarosporium Caprifolii** Brun. Champ. Saint. 1887, p. 430. — 6204
Peritheciis secus ligni fibras seriatis vel gregariis, erumpentibus, compressis, nigris; sporulis ellipsoideis v. globuloso-ellipsoideis, 3-septatis, ad septa non constrictis, longitudinaliter 1-septatis, 12-15 ≃ 5-6, fuligineis, basidio minutissimo, hyalino sæpe fultis.

Hab. in sarmentis emortuis Loniceræ Caprifolii, Saintes Galliæ.

27. **Camarosporium Symphoricarpi** Karst. Symb. Myc. Fenn. XXIV, 6205
p. 18. — Peritheciis confertis, rarius subsparsis, dein semiemersis, rotundatis v. oblongatis, poro pertusis v. ostiolo papillato præditis, atris, circiter 0,2 mm. latis; sporulis ovoideis v. ellipsoideis, vulgo inæqualibus, 3-, rarissime 5-septatis, accedente septulo uno longitudinali, ad septa non constrictis, opace fuligineis, 12-16 ≃ 6-7.

Hab. in ramulis aridis Symphoricarpi racemosæ in horto mustialensi Fenniæ.

28. **Camarosporium Syringæ** Cooke et Mass. Grev. XVI, pag. 9. — 6206
Subgregarium in maculis dealbatis; peritheciis subcutaneis, epidermidem elevantibus, demum findentibus, subglobosis, atris, papillatis; sporulis ellipticis, triseptatis, haud constrictis, cellula una vel binis longitrorsum divisis, brunneis, 15-17 ≃ 8-10.

Hab. in ramis Syringæ Emodi, Kew, London Britanniæ. — Affine *C. Ephedræ*, a quo peritheciis minoribus, magis gregariis, maculis albidis, sporulis proportione latioribus differt.

29. **Camarosporium Viburni** Bäuml. Crypt. Presb. p. 17. — Peritheciis 6207
sparsis, in cortice sub epidermide nidulantibus, globosis, atris, contextu parenchymatico; sporulis oblongo-ovoideis, 20-24 ≃ 6-10, haud constrictis, 5-7-septato-muriformibus, fuligineis.

Hab. in ramis aridis Viburni Lantanæ, Presburg Hung.

30. **Camarosporium Laureolæ** Br. et Har. Journ. de Bot. 1891, p. 171. 6208
— Peritheciis sparsis, amphigenis, prominentibus, superficialibus,

firmis, mammiformibus, 0,3-0,5 mm. diam.; ostiolis papillatis, oculo nudo conspicuis; sporulis ovato-oblongis vel oblongis, obtusis, 3-5-septatis, 1 vel pluribus septis longit. percursis, initio hyalinis, demum brunneo-olivaceis, pellucidis, 20-26 ≃ 9-10.

Hab. ad folia emortua Daphnes Laureolæ prope Clermont Arverniæ (Héribaud).

31. **Camarosporium Cneori** Passer. Diagn. F. N. IV, n. 72. — Perithecis crebre sparsis, cortice immersis, minutis, nigris, contextu celluloso, fuligineo; sporulis ellipticis v. ovatis, primo integris, dein uni-triseptatis, non constrictis, loculis nonnullis septo longitudinali v. obliquo divisis, flavis; basidiis brevibus hyalinis, fultis, 10-12 ≃ 5. 6209

Hab. in ramulis siccis Cneori tricocci, in horto botanico, Roma.

32. **Camarosporium quercinum** (Bon.) Sacc. Syll. III, p. 312. — Sec. Celotti Mic. Montp. pag. 21, sporulæ 6-7 ≃ 4-5 metiuntur. Nascitur quoque in ramis Quercus, Montpellier Galliæ.

33. **Camarosporium cruciatum** (Fuck.) Sacc. Syll. III, p. 464, Berl. Pug. Fung. Fior. p. 25, t. II, f. 13. — Perithecia conoideo-papillata, tecta, nitida; sporulæ 8-10 ≃ 8, basidiis brevissimis vel subnullis fultæ. Nascitur quoque in ramis emortuis Mori albæ pr. Firenze Ital. centr. In Syll. l. c. ubi indicatur *Alnus campestris*, legatur, ut evidens est, *Ulmus campestris*.

34. **Camarosporium Passerinii** Sacc. *C. affine* Passer. Diagn. F. N. IV, n. 76 (1888), nec S. B. R. — Peritheciis aggregatis, erumpentibus, globosis, ostiolo vix papillato, epidermide rupta cinctis, atris, sublevibus; sporulis sæpius exacte ellipticis, initio hyalinis, uniseptatis, tandem castaneis, triseptatis, loculis intermediis vel subinde etiam polaribus, longitrorsum divisis, 10-15 ≃ 5-6. 6210

Hab. in ramulo emortuo Mori albæ, socia *Sphæropside*, Parma Ital. bor. — Sporulis minoribus, numquam 5-7-septatis ab affini *Camarosporio Mori* distinguitur.

35. **Camarosporium strobilinum** Bomm. Rouss. Sacc. sp. nov. — Peritheciis subcutaneo-erumpentibus, atro-brunneis, aggregatis subinde confluentibus, 0,3-0,5 mm. diam., nucleo compacto; perithecii contextu spurio; sporulis ellipsoideo-globulosis, 27-36 ≃ 21-24, olivaceo-fuligineis, dein fere opacis, basi apiculo subtriangulari obtuso subhyalino v. basidio brevissimo, 6 ≃ 3-3,5, curvo fultis, dense septato-muriformibus, septis subconcentricis. 6211

Hab. in squamis strobilorum Abietis excelsæ, M. Righi Helvetiæ. — Ob perithecia parum evoluta ad Melanconieas nutat.

36. **Camarosporium Ephedræ** Cooke et Mass. Grev. XVI, pag. 9. — 6212
Peritheciis sparsis, subcutaneis, demum erumpentibus et superne expositis, subglobosis, atris, apice pertusis; sporulis ellipsoideis, triseptatis, loculis uno v. binis long. divisis, brunneis, 20 ≃ 8-10.

Hab. in ramulis Ephedræ andinæ, Kew London Britanniæ.

II. *In Dicotyledoneis herbaceis v. suffruticosis.*

37. **Camarosporium Salviæ** Pat. Bull. Soc. Myc. 1891, pag. 179. — 6213
Peritheciis sparsis vel confluentibus, superficialibus, orbicularibus, 0,5-0,5 mm. diam., nigris, convexis, ostiolo breviusculo pertuso; sporulis numerosis, primitus ovoideis hyalinisque dein utrinque attenuatis, 5-8-septato-muriformibus, atris, loculis ultimis hyalinis, 25-30 ≃ 10-15.

Hab. in caulibus siccis Salviæ, Panecillo pr. Quito Æquatoriæ.

38. **Camarosporium Teucrii** Celotti Mic. Montp. p. 29. — Peritheciis 6214
gregariis, tomento candido obvolutis, prominulis, globosis v. conoideis, diametro valde inæqualibus; sporulis e globoso ovoideis, 2-3-septatis, muriformibus, atris, 12-15 ≃ 8-9.

Hab. in ramis Teucrii fruticantis, Montpellier Galliæ.

39. **Camarosporium Helichrysi** Pass. in Brun. Champ. nouv. VI, p. 3. 6215
— Peritheciis subgregariis, cortice immersis, tectis v. demum nudis, nigris, globoso-depressis, ostiolo parum evoluto; sporulis ovoideis v. ellipsoideis, atro-castaneis, 3-septatis, ad septa non constrictis, loculo uno longitudinaliter septato, 10-12 ≃ 5-6.

Hab. in caulibus emortuis Helychrysi Stœchadis, Fouras pr. Saintes Galliæ. — Verisimiliter species eadem est **Camarosporium Helichrysi** Passer. Diagn. F. N. IV, n. 75: peritheciis sparsis, erumpentibus, atris, globosis, contextu fuligineo, obscure celluloso; sporulis ellipticis triseptatis, non constrictis, loculis septo mediano longitudinali continuo divisis, 12,5 ≃ 5-6. In caulibus siccis Helichrysi Stœchadis, Vigheffio prov. Parma.

40. **Camarosporium affine** Sacc. Bomm. et Rouss. F. myc. Belg. II, 6216
pag. 38 (1887). — Peritheciis subepidermicis, dein erumpentibus, sparsis, subglobosis, ostiolo papilliformi, 20-30 μ. diam.; sporulis subglobosis, fuliginosis, 12-21 μ. long., muriformibus.

Hab. in caulibus Artemisiæ vulgaris, Nonceveaux Belgii. — *C. Compositarum* et *C. æquivoco* affine.

41. **Camarosporium Poterii** Passer. Diagn. F. N. IV, n. 74. — Peri- 6217
theciis sparsis vel subgregariis, tectis, epidermidem sublevantibus,

ostiolo acuto erumpente, contextu minute celluloso, fuligineo; sporulis irregulariter ellipsoideis, 5-7-septatis, ad septa constrictis, muriformibus, 25–37 ≃ 10-12, flavis, basidiis hyalinis, brevibus, flexuosis fultis.

Hab. in ramulis Poterii Sanguisorbæ, Vigheffio pr. Parma Ital. bor. — Probabiliter *Pleosporæ Passerinianæ* status pycnidicus.

42. **Camarosporium Sarcinula** Sacc. et Berl. Myc. Sibir. p. 22, fig. 27. 6218
— Peritheciis sparsis, 200–250 μ. diam., atris; contextu crasse parenchymatico fuligineo, epidermide tectis, globoso-depressis; sporulis numerosis, sphæroideis vel ovoideis, 3-5-septatis, muriformibus vel cruciatim divisis, 15-20 ≃ 15, atro-fuligineis.

Hab. in ramulis Corispermi hyssopifolii in desertis prope Caratus Sibiriæ (A. Argunowa). — Affine *C. Roumeguerii*, *C. cruciato* simile sed sporulis majoribus.

43. **Camarosporium pusillum** Cooke Grev. XIX, p. 4. — Peritheciis 6219
sparsis punctiformibus, minutis, membranaceis, epidermide tectis; sporulis ellipticis, irregularibus, utrinque obtusis, 4–5-septatis, cellula una alterave longitudinaliter divisis, fuscis, 20-30 ≃ 8.

Hab. in caulibus et receptaculis Mesembryanthemi in Nova Zelandia (Colenso).

44. **Camarosporium ellipticum** Cooke et Harkn. in Grevillea XIII, 6220
p. 112. — Caulicolum; peritheciis gregariis, subglobosis, erumpentibus, mox seminudis, atris, pertusis; sporulis ellipticis, 2-4-septatis, loculo uno alterove longitudinaliter divisis, fuscis, nec constrictis, magnitudine varialibus, 10–18 ≃ 7–7,5.

Hab. in caulibus Mesembryanthemi in California (Harkness).

45. **Camarosporium Rostrupii** Sacc., *C. alpinum* Rostr. Bidr. Ascom. 6221
Dovr. p. 11 nec Speg. — Peritheciis discretis, majusculis, 0,3 mm. diam., globosis, poro perspicuo pertusis; sporulis irregulariter ovato-oblongis, multiseptato-muriformibus, 16-28 × 9-13, fuscis.

Hab. in inflorescentia Bartsiæ alpinæ, Dovre Norvegiæ (Blytt).

III. *In Monocotyledoneis.*

46. **Camarosporium Geitonoplesii** Passer. Diagn. F. N. IV, n. 77. — 6222
Peritheciis ligno adnatis, solitariis, globosis v. sæpius lineatim digestis et etiam concretis, erumpentibus dein cortice consumpto, nudatis, atris; sporulis ut in *Camarosporio Cneori*, sed paullo grandioribus 10-15 × 5-6.

Hab. in caulibus siccis Geitonoplesii angustifolii, sociis *Sphæropside* et *Diplodia* in horto botanico Roma.

47. **Camarosporium Phragmitis** Brun. in Rev. Myc. 1886, p. 142. — 6223
Peritheciis sparsis vel subgregariis, numerosis, globulosis, epidermide parum atrata tectis, ostiolo erumpente; sporulis oblongo-fuligineis, primo 3-septatis, ad septa constrictis, demum loculis uno vel duobus longitudinaliter divisis, 18-22 ≈ 7-8.

Hab. in vaginis Phragmitis communis, Saintes Galliæ. — An *Hendersonia Phragmitis* senescens?

48. **Camarosporium metableticum** Trail Suppl. Myc. Scot. n. 3074. — 6224
Peritheciis innatis, sparsis, subglobosis, circ, 250 μ. diam., ostiolo brevissimo; sporulis fuligineis, ovoideis, ellipsoideis v. trapezoideis, medio non vel vix constrictis, utrinque acuminatis vel rotundatis, circ. 26-30 ≈ 12-13, transverse 3-7-septatis, loculis 1-4 mediis longitudinaliter 1- raro 2-septatis.

Hab. in foliis emortuis Ammophilæ arenariæ prope Aberdeen Scotiæ.

49. **Camarosporium arenarium** Sacc. Bomm. Rouss. Contr. Myc. Belg. 6225
III, pag. 20. — Peritheciis sparsis, subglobosis, 1/4 mm. diam., subcutaneis, dein erumpentibus, prominulis; sporulis oblongis, subfusoideis, olivaceis, 7-septato-muriformibus, 24-36 ≈ 10-14.

Hab. in culmis Elymi arenarii, Ostende Belgii.

CYTOSPORIUM Peck — Syll. III, p. 470.

1. **Cytosporium incrustans** Fautrey in Rev. Myc. 1890, p. 168. — 6226
Peritheciis sparsis, adhærentibus, basi incrustatis, nigris, hirsutis, papillatis; sporulis obovatis vel oblongis, irregularibus, subinde sphæroideis v. piriformibus, 12-20 ≈ 6-12, tri-quinqueseptatis muriformibusque, olivaceis.

Hab, in ligno quercino putrescente, Noidan, Côte-d'Or Galliæ.

2. **Cytosporium? fuegianum** Speg. F. Fueg. n. 413. — Peritheciis in 6227
matrice late infuscata v. nigrificata superficialibus globoso-depressis 250 μ. diam., atris subcarbonaceis primo pilis cylindraceis acutis continuis opacis fuligineis basi non incrassatis sæpeque subcæspitulosis, 20-80 ≈ 5-7 μ., laxe vestitis, dein glabratis, ostiolo non v. vix papillulato-donatis, contextu indistincto; sporulis ellipticis, utrinque acutiuscule rotundatis 18-20 ≈ 4-6 horizontaliter 3-5-(rarius 7-)septatis, ad septa validule constrictis, loculis 2-3 (rarius 0) centralibus septo altero continuo donatis, griseo-fuligineis.

Hab. ad lignum decorticatum putrescens Libocedri tetragoni et Fagi cujusdam prope Port Tom in Schyring island Fuegiæ. — Species notis fructificationis ac basidiis deficientibus nonnihil dubia. An ascigera?

DICHOMERA Cooke — Syll. III, p. 471.

1. **Dichomera æquivoca** Passer. in Erb. Critt. Ital. Ser. II, n. 1391, 6228
— Peritheciis discretis, superficialibus, celluloso-confertis; sporulis parvulis, fuscis, subglobosis, ut plurimum 7,8 μ. diam., uni- vel biseptatis vel sæpius radiatim septatis, aut etiam ellipticis triseptato-muriformibus, et tunc 10 = 5.

Hab. in caulibus siccis Artemisiæ camphoratæ, pr. Parma Ital. bor. (Passerini).

2. **Dichomera Persicæ** Passer. Diagn. F. N. V, n. 42. — Peritheciis 6229
gregariis vel sparsis, nigris, stromate carbonaceo lignum incrustante semiimmersis, globosis, glabris; sporulis elongato-ellipticis, primo 3-septatis, flavidulis, loculo altero ex intermediis longitudinaliter diviso, tandem 5-7-septatis, plus minus ad septa, præcipue medium constrictis, loculis nonnullis septulo longitudinali divisis, 15-22 × 5-10, fuligineis.

Hab. in disco trunci recisi Persicæ, Vigheffio pr. Parma.

3. **Dichomera Laburni** Cooke et Massee Grev. XVIII, p. 54. — Erum- 6230
pens, cæspitosa; peritheciis globosis, nigris, opacis, in stromate definito 5 mm. diam. numerose confertis; sporulis ellipsoideis, 3-septatis septisque uno vel pluribus longitudinalibus divisis, fuligineis, 22-25 × 7; basidiis brevibus.

Hab. in ramis Cytisi Laburni, Blakey Leicester (W. A. Vice). — Videtur forma cæspitosa-compacta *Camar. Laburni* (West.) Sacc. [nec *C. Laburni* Sacc. = *C. laburnicum* Sacc. Cfr. supra].

4. **Dichomera Elæagni** Karst. Symb. Myc. Fenn. XXIII, pag. 11. — 6231
Stromatibus per corticem fissum transversim erumpentibus, ellipsoideis, ovalibus vel subrotundatis planiusculis, atris usque ad 5 mm. latis; peritheciis stromate semiimmersis, polystichis, plurimis, subsphæroideis, ostiolo papilliformi, atris, circiter 0,2 mm. diam.; sporulis ellipsoideis, sæpe irregularibus, rectis v. leviter curvulis, 3-septatis, loculo uno alterove septulo longitudinali diviso ad septa non vel vix constrictis, fuligineis, semipellucidis, 15-21 × 9-11.

Hab. in ramis emortuis Elæagni macrophylli in horto mustialensi Fenniæ (Onni Karsten).

Sect. 8. Scolecosporæ.

SEPTORIA Fr. em. Sacc. Syll. III, p. 474.

I. *In Dicotyledoneis lignosis.*

1. **Septoria cirrosa** Winter in Journ. of Myc. 1885, p. 122. — Maculis sparsis v. confluentibus, subrotundatis v. irregularibus, submagnis, pallide fuscidulis, centro sæpe pallidioribus, area lata, luteola circumdatis, indeterminatis, usque 7 mm. latis; peritheciis amphigenis, laxe gregariis, semiimmersis, depresse globosis, poro late pertusis, atris, 100-130 μ. diam.; sporulis cylindraceo-filiformibus, sæpe flexuosis curvatisve, utrinque acutis, chlorino-hyalinis, plerumque 3-5-septatis, 30-45 = 2-2,5, cirrose expulsis. 6232

   Hab. ad folia viva Staphyleæ trifoliæ, Missouri in America boreali.

2. **Septoria Pteleæ** Ell. et Ev. Proc. Acad. Phil. 1891, pag. 76. — Maculis amphigenis, sparsis, parvis, 1-3 mm. lat., irregularibus, subnigris, definitis, sed margine proprio destitutis; peritheciis amphigenis, sparsis, minutis, 100-150 μ. diam., prominulis, papillatis; sporulis cylindraceo-vermicularibus, guttatis, 1-3-septatis, uno apice angustatis, hyalinis, 35-65 = 3-3,5. 6233

   Hab. in foliis Pteleæ trifoliatæ, Racine, Wisconsin Amer. bor. (Davis).

3. **Septoria Pistaciæ** (Lév.) Cooke Grev. XIII, p. 45, *Dothidea* Lév. Demid. Voy. II, p. 103, t. V, f. 2. — Hypophylla, maculiformis, atra, irregularis; peritheciis innatis, confertis, minutissimis, ostiolis inconspicuis; sporulis filiformibus, curvis, continuis, pellucidis, 50 μ. long. 6234

   Hab. in foliis Pistaciæ, Nikita Tauriæ (Demidoff).

4. **Septoria Hydrangeæ** Bizz. Fungi Ven. novi vel crit. p. 6. — Maculis brunneo-ferrugineis, rubro-sanguineo cinctis, irregularibus, dein confluentibus; peritheciis immersis, contextu parenchymatico, brunneo, indistincto; sporulis cylindraceis, rectis v. flexuosis, hyalinis, non septatis, 16-22 = 1,5. 6235

   Hab. in foliis Hydrangeæ hortensis in horto botanico patavino. — Species valde noxia.

5. **Septoria canadensis** Peck 32 Rep. p. 39. — Maculis amplis, subinde confluentibus, pallidis vel subalutaceis, purpureo-marginatis; 6236

peritheciis epiphyllis, minutis, sparsis, nigris; sporulis filiformibus, subrectis, 25–36 μ. long.

Hab. in foliis vivis Corni canadensis, Sandlake Amer. bor.

6. **Septoria evonymella** Passer. Diagn. F. N. IV, p. 13. — Perithe- 6237
ciis epiphyllis, crebre sparsis, tectis, atris, globosis, ostiolo crassiusculo, plus minus longo, recto vel inflexo; sporulis bacillaribus, rectis, endoplasmate minutissimo granuloso, continuis, hyalinis, 30-60 ≃ 2,5.

Hab. in foliis dejectis Evonymi japonici, Livorno Ital.

7. **Septoria Alaterni** Passer. Diagn. F. N. IV, p. 13. — Maculis exa- 6238
ridis griseis, halone fusco cinctis; peritheciis epiphyllis, paucis, erumpentibus, interdum collapsis, atris; sporulis subcylindraceis curvis, apicibus obtusis, basidiis longiusculis fultis, integris hyalinis, endoplasmate nubiloso, 20 ≃ 3.

Hab. in foliis vivis Rhamni Alaterni, Arezzo et Parma.

8. **Septoria capensis** Wint. in Hedw. 1885, I. — Peritheciis in ma- 6239
culis sordide albidis vel griseis, margine determinato, fusco, perlato cinctis, rotundatis v. angulatis, 1½–2 mm. lat., epiphyllis, immersis, demum erumpentibus, depresse globosis, fuscis, tenuissime membranaceis, 130-150 μ. diam.; sporulis filiformibus, sæpe flexuosis curvatisque, pluriseptatis, hyalinis, 30-50 × 2-2½.

Hab. in foliis languescentibus Zizyphi mucronati in Prom. Bon. Spei (Mac Owan).

9. **Septoria Spartii** Rob. et Desm. Not. X, p. 9. — Maculis rotun- 6240
datis vel oblongis, olivaceis, dein fulvo-rufis, 2-10 mm. long. quandoque luteolo-cinctis; peritheciis perexiguis, numerosis, innato-prominulis, fuscis demum nigris, poro orbiculari apertis; cirris albido-carneis; sporulis cylindricis, obtusulis, rectis curvulisve 4-8-guttulatis, 20 ≃ 2-3.

Hab. in foliis languidis Spartii juncei in Gallia boreali.

10. **Septoria Argophyllæ** E. et K. Journ. Myc. 1887, p. 86. — Ma- 6241
culis amphigenis, minutis, 1 mm. diam., initio nigricantibus, dein centro expallentibus, atro-marginatis; peritheciis sæpius epiphyllis, sparsis, majusculis, immersis; sporulis cylindraceis, obtusis, curvulis, hyalinis, 2-3-septatis, 40–55 ≃ 2,5–3.

Hab. in foliis vivis Psoraleæ argophyllæ, Manhattan, Kans. Amer. bor. (Swingle).

11. **Septoria Hardenbergiæ** Sacc. in Hedw. 1890, pag. 156. — Ma- 6242
culis amphigenis, latis, pallentibus, fusco-marginatis; peritheciis punctiformibus, pertusis, 90-100 μ. diam., contextu melleo-ochra-

ceo; sporulis fusoideo-falcatis, medio 2-guttulatis, 15–18 ≃ 1,5, hyalinis.

Hab. in foliis subvivis Hardenbergiæ monophyllæ in hortis Norwood Australiæ (Tepper).

12. **Septoria Siliquastri** Pass. — Syll. III, p. 484. — Sec. Brun. Suppl. Sphæroid. p. 4, sporulæ sunt 20-25 μ. long. — Nascitur quoque in foliis Cercidis, Saintes Galliæ.

13. **Septoria Wistariæ** Brun. Esp. Sphærops. p. 3. — Maculis hypophyllis, irregularibus, versiformibus, læte brunneis, non marginatis; peritheciis sparsis vel adproximatis, numerosis, punctiformibus, brunneo-nigris, pertusis; sporulis bacillaribus, obtusis, rectis curvulisve 20-25 ≃ 1-1,5, subcontinuis, hyalinis. 6243

Hab. in foliis languidis Wistariæ sinensis, Saintes Galliæ.

14. **Septoria Phyllodiorum** Sacc. in Hedw. 1890 (Junio) pag. 156. — Maculis amphigenis, circularibus, albidis, fusco-cinctis; peritheciis confertis, punctiformibus, pertusis, 130-140 μ. diam., nigricantibus; sporulis anguste fusoideis, utrinque acutis, 15-16 ≃ 2, 1-septatis, hyalinis. 6244

Hab. in phyllodiis vivis Acaciæ, Caromby Australiæ (Tepper).

15. **Septoria Martiniana** Sacc. *Septoria phyllodiorum* Cooke et Mass. Grev. XIX, p. 47 (Dec. 1890) nec Sacc. — Peritheciis dense gregariis, amphigenis, maculis definitis destitutis, totam folii paginam sæpe occupantibus, immersis, epidermide tectis, globoso-depressis, nigris, apice pertusis; sporulis cylindraceis, utrinque obtusis, multiguttatis, dein 3-5-septatis, hyalinis, 40 ≃ 3. 6245

Hab. in phyllodiis Acaciæ longifoliæ, Victoria Australiæ (Martin).

16. **Septoria Carrubi** Pass. in Erb. critt. ital. II, n. 1292. — Peritheciis hypophyllis, minutissimis, in maculis fuscis irregularibus aggregatis; sporulis in cirros albidos ejectis, allantoideis, leniter arcuatis, integris, 20–25 ≃ 2,5–3, hyalinis. 6246

Hab. in foliis languidis Ceratoniæ Siliquæ ad Pincio, Roma. — Cum *Septoria Ceratoniæ* Passer. non comparanda.

17. **Septoria Sorbi** Lasch in Kl. H. M. n. 459, Sacc. in Bull. Soc. Myc. V, pag. 121. — Maculis minutis irregularibus, hypophyllis, brunneolis, haud limbatis; peritheciis remotiusculis, punctiformibus, nigricantibus; sporulis filiformibus, curvis, 60-70 ≃ 3,5-4, plerumque 2-septatis, hyalinis; basidiis brevissimis. 6247

Hab. in foliis subvivis Sorbi aucupariæ, Driesen Germaniæ. — Satis diversa a *Sept. Sorbi-hybridæ* Cesati.

18. **Septoria Myrobolanæ** Brun. Misc. Mycol. p. 19. — Maculis me- 6248
diis rotundis v. oblongis, brunneis, demum expallentibus, saturatius marginatis; peritheciis minutis, erumpentibus, nigris, pertusis; sporulis cylindricis, hyalinis, continuis, rectis curvulisve, 18-30 = 1,5.

Hab. in foliis Pruni Myrobolanæ, Saintes Galliæ.

19. **Septoria effusa** (Lib.) Desm. — Syll. III, p. 489. — In exemplaribus Libert. Arduenn. n. 335, sporulæ adsunt filiformes curvulæ subcontinuæ, 20-22 = 0,7-1, basidiis fusoideis, apice acutis, subinde ramosis, 15-20 = 3 suffultæ. Ab hac specie vix differt *Septoria pallens* Sacc.

20. **Septoria Padi** Lasch in Kl. H. M. n. 457. — Maculis indeterminatis, ochraceo-fuscis; peritheciis spuriis tectis disciformibus, 1/6 6249
mm. lat., dein concavis, apertis, succineis; sporulis filiformibus, curvis utrinque obtusiusculis, 45-50 = 2, spurie 3-septatis, hyalinis.

Hab. in pag. inf. foliorum Pruni Padi adhuc vivorum, Driesen Germaniæ. — Perithecia omnino spuria, hinc *Cylindrosporium Padi* Karst. verisimiliter eandem rem sistit. *Sept. Padi* Thüm. F. Austr. n. 1186, omnino differt et probabiliter *Septoriam Pruni* Peck spectat.

21. **Septoria stipata** (Lib.) Sacc. F. Ardenn. n. 177, *Ascochyta stipata* Lib. Crypt. IV, n. 354 (1837). — Epiphylla; maculis magnis 6250
orbiculatis fuscis; peritheciis dense sparsis, prominulis, globosis, poro apertis; cirris tenuissimis, hyalinis; sporulis fusoideis, curvatis, 7-9-guttulatis. Lib. l. c.

Hab. ad folia Pruni Padi in Arduennis. — Sporulas non vidi. *Sept. Pruni* Ellis forte huic affinis.

22. **Septoria gummigena** Ell. et Ev. Proc. Acad. Phil. 1891, pag. 79. 6251
— Peritheciis gregariis, nigris, subovoideis, mox late apertis, circ. 1/4 mm. diam.; sporulis filiformibus, 30-40 = 1-1,2.

Hab. in gummi indurato Cerasi, Wilmington Del. Amer. bor. (Commons). — «An, ob habitationem singularem, novus typus?».

23. **Septoria Cerasi** Pass. Fung. Gall. novi in Journ. d'Hist. nat. 6252
Bord. 1885, n. 4, p. 16. — Maculis subdiscoideis, atro-sanguineis; peritheciis minutis, immersis, vix ostiolo superne perspicuis; sporulis filiformibus; integris, hyalinis, in cirrum brevem ejectis, rectis v. curvulis, 15-30 = 1 1/2.

Hab. in foliis Pruni Cerasi prope Saintes, Pessines etc. in Gallia (Brunaud).

24. **Septoria Salicifoliæ** (Trel.) Berl. et Vogl. Add. Syll. n. 4503, 6253
Ascochyta Salicifoliæ Trelease in Journ. of Myc. p. 14. — Ma-

culis numerosis, rotundatis, circ. 1 mm. diam., intense carneolis; peritheciis amplis, concoloribus; sporulis hyalinis, fusiformibus, sæpius leniter curvatis, 1-septatis, 3-4-guttulatis, 30-50 × 2-2,5.

Hab. in foliis Spirææ salicifoliæ, Wisconsin Amer. bor. — Primo obtutu *Septoriam ascochytoidem* æmulans, sed ab ea maculis non obscure marginatis, sporulis minus longis differt.

25. **Septoria ceuthosporoides** Cooke et Hark. Journ. Myc. 1888, p. 41, *Cryptosporium ceuthosporoides* Cooke et Hark. Grev. IX, p. 127, Syll. III, p. 490. — Perithecia applanata, brunnea, tenuia, supra fissa; sporulæ hyalinæ, fusoideæ, curvæ, 18-20 × 3. In foliis emortuis Eucalypti in California.

26. **Septoria caa-guazuensis** Speg. Guar. I, p. 150. — Maculis epi- 6254
phyllis, determinatis, inæqualiter angulosis, aridis, griseis, facile frustulatim secedentibus; peritheciis sparsis, atris, lenticularibus, 80-90 μ. diam., membranaceis, ostiolo impresso zona coriacella cincto pertusis, atris, contextu parenchymatico pellucido olivaceo; sporulis cylindraceo-elongatis, utrinque obtusis, 16-20 × 1,5, subindistincte 2-3-septatis, nubilosis, hyalino-chlorinis.

Hab. ad folia dejecta Myrtaceæ cujusdam in silva subvirginea Caa-guazù Brasiliæ.

27. **Septoria Theæ** Cav. Mat. Lomb. p. 20, t. II, f. 8. — Peritheciis 6255
sparsis, superficialibus, applanatis, nigro-opacis, rugulosis, ostiolo prominenti pertusis; sporulis cylindraceis leviter curvulis, utrinque obtusis et oblique 1-ciliatis, 3-septatis, loculis mediis dilute chlorinis, extimis hyalinis, 18-20 × 2-3, setis 6-8 μ. long.

Hab. in foliis languidis Theæ viridis in horto botanico Pavia Ital. bor.

28. **Septoria aurantiicola** Speg. F. Puigg. n. 424. — Maculis amphi- 6256
genis irregulariter expansis candidis, determinatis, zonula stricta fusco-subatra subnitente cinctis, peritheciis in maculis sparsis amphigenis globoso-conoideis 120-150 μ. diam. innatis, atris, astomis, spuriis? contextu fusco indistincto; sporulis filiformibus 40-50 × 2, falcatis, utrinque obtusis, grosse 1-guttulatis, hyalinis.

Hab. ad folia languida Citri Aurantii in hortis pr. Apiahy Brasiliæ.

29. **Septoria Rhois** Lév. in Demid. Voy. Ross. mer. et Crim. tab. V, 6257
f. 4. — Hypophylla; maculis fuscis, marginatis; peritheciis sparsis, raris, innatis, nucleo albido farctis, ostiolis inconspicuis; sporulis filiformibus, numerosis, 3-4-septatis, pellucidis.

Hab. in foliis Rhois Cotini, Orianda Tauriæ Rossiæ merid.

30. **Septoria Toxicodendri** Curt. in Journ. myc. 1887, p. 77. — Maculis fulvis, subangulosis, 3-5 mm. lat., margine brunneo, elevato, angusto; peritheciis nigris, convexis prominentibus aggregatis hypophyllis, 220-240 μ. diam.; sporulis hyalinis, cylindricis, curvis, 3-5-septatis 35-40 ≃ 3. 6258

Hab. in foliis Rhois Toxicodendri in Pennsylvania.

31. **Septoria Rosæ-sinensis** Brun. Misc. mycol. pag. 19. — Maculis rotundis, læte brunneo-olivaceis, margine brunneo exstante; peritheciis hypophyllis, sparsis vel circulariter sitis, conicis, brunneis; sporulis filiformibus, curvis, continuis, hyalinis, 22-25 ≃ 1-1,5. 6259

Hab. in foliis Hibisci Rosæ-sinensis culti, Bordeaux Galliæ.

32. **Septoria Puiggarii** Speg. F. Puigg. n. 426. — Maculis parvulis amphigenis fuscis determinatis, 1-2 mm. diam., sæpe zona obscuriore cinctis; peritheciis lenticularibus membranaceis parenchymaticis, atris, 80-90 μ. diam., minute pertusis; sporulis obclavulato-fusoideis, arcuatis, continuis, hyalinis, 40-60 ≃ 2-2,5. 6260

Hab. ad folia viva Walteriæ speciei cujusdam in pratis pr. Apiahy Brasiliæ.

33. **Septoria æsculicola** (Fr.) Sacc. in Bull. Soc. myc. V, pag. 122, *Depazea æsculicola* Fr., Kretzschm. in Kl. n. 563. — Ab affini *Sept. æsculina* Thuem. differt sporulis 20-30 ≃ 1, h. e. brevioribus et multo tenuioribus. 6261.

Hab. in hypophyllo Æsculi Hippocastani in Germania.

34. **Septoria pachyspora** E. et Hol. in Journ. of Myc. I, pag. 6. — Peritheciis epiphyllis, atris, 100-130 μ. diam., in maculis candidis, tenuibus, subangularibus vel fere pustulis, subrotundis latis, 1-2 mm, margine purpureo-atro cinctis; sporulis arcuato-fusiformibus, 4-6-septatis, 35-60 ≃ 3, sæpe luteo-virentibus. 6262

Hab. in foliis Zanthoxyli americani, in America boreali.

35. **Septoria acerella** Sacc. Syll. III, pag. 479 — var. **major** Brun. Esp. Sphærops. p. 3. — Maculis minutis, atris; peritheciis amphigenis, punctiformibus, nigris; sporulis bacillaribus, continuis, rectis curvulisve, granulosis, 15-32 ≃ 2,5-3, hyalinis. 6263

Hab. in foliis languidis Aceris campestris, Rochefort Galliæ.

36. **Septoria Myopori** Cooke et Mass. Grev. XVI, p. 113. — Epiphylla; maculis orbicularibus, albidis, linea fusca cinctis; peritheciis semiimmersis, punctiformibus, atris; sporulis linearibus flexuosis, guttulatis 40-50 ≃ 2. 6264

Hab. in foliis Myopori insularis, Melbourne Australiæ (Campbell).

37. **Septoria Melastomatis** Pat. in Rev. Myc. 1886, p. 84. — Maculis obscure brunneis, amphigenis; peritheciis hypophyllis, minutis, numerosis, gregariis, nigris, lucidis, conoideis; sporulis elongatis, flexuosis, aculeatis, hyalino-viridulis, 5–6-septatis, 60-90 ≃ 5. 6265

Hab. in foliis Melastomatis yunannensis, Tsang-Chan Sinarum (Ab. Delavay).

38. **Septoria Melastomatum** (Lév.) Berl. et Vogl. Add. Syll. n. 4679, 6266
Rhabdospora Melastomatum Lév. in Ann. Sc. Nat. 1863, p. 299. — Peritheciis minutis, puncto minoribus, sparsis, globosis, epidermide tectis, prominulis, vertice pertusis, macula alba, arida fusco-cincta insidentibus; sporulis linearibus, continuis, cylindricis, utrinque obtusis, hyalinis.

Hab. ad folia Melastomatis cujusdam in Nova Granata.

39. **Septoria Mayteni** Wint. Exot. Pilze IV, pag. 12. — Peritheciis 6267
amphigenis dense gregariis, foliorum dimidiam partem superiorem, expallidam occupantibus, immersis, depresse globosis, fere lenticularibus, vertice primo concavo, demum parum convexo et emergente, late pertuso, atris, 170-200 μ. diam.; sporulis numerosissimis, cylindraceis, plerumque rectis, rarius perparum curvatis, utrinque rotundatis, haud raro basin versus parum attenuatis, subclavatis, ut videtur continuis, hyalinis, 21-30 ≃ 3,5.

Hab. in foliis languidis Mayteni spec. Cap Horn. (Hariot) et in foliis M. magellanicæ in silvis Shammacus Fuegiæ (Spegazzini). — In hac postrema forma perithecia subastoma, rugulosa, globulosa, coriacella; sporulæ 15–25 ≃ 2,5-3, sæpe 1-septatæ.

40. **Septoria? maytenicola** Speg. F. Fueg. n. 419. — Maculis nullis; 6268
peritheciis immersis vix prominulis, hinc inde densiuscule aggregatis, lenticularibus 150–180 μ. diam., atris, glabris, subcarbonaceis, contextu indistincto, ostiolo vix papillulato pertusis; sporulis cylindraceis, superne rotundatis, inferne acutatis 12–14 ≃ 1–1,5 continuis, rectis, hyalinis, basidiis brevissimis papillæformibus suffultis, paraphysibus filiformibus dense ramulosis obvallatis.

Hab. ad folia dejecta putrescentia Mayteni magellanicæ in silvis prope Shammacus Fuegiæ.

41. **Septoria? Winterii** Speg. F. Fueg. n. 423. — Maculis nullis; 6269
peritheciis laxe sparsis epi- vel rarius hypophyllis immersis vix prominulis lenticulari-globulosis 200 μ. diam., atris glabris coriacellis, contextu indistincto, ostiolo vix papillulato perforatis; spo-

rulis cylindraceis utrinque rotundatis 20-25 ≃ 2-2,5 continuis, hyalinis, rectis, basidiis obovatis breviusculis 8-10 ≃ 3-5 bisporis suffultis.

Hab. ad folia dejecta Drymidis Winterii in silvis prope Shammacus et in Staten island Fuegiæ. — Species inter *Phomam* et *Rhabdosporam* nutans. An huc *Sept. Drymios* Mont., cujus tamen perithecia 150 μ. et sporulæ 20 μ. metiuntur?

42. **Septoria Mikaniæ** Wint. Grev. XV, p. 92. — Maculis amphigenis, sparsis vel subgregariis, angulato-rotundatis vel irregularibus, sæpe lobatis repandisque, luteo-fuligineis, centro sæpe exaridis albidisque, linea elevata lutea et zona indeterminata, purpurea, plus minusve lata circumdatis, usque 3 mm. latis, interdum confluentibus; peritheciis sparsis, immersis, subglobosis, poro pertusis, vertice demum erumpentibus, membranaceis, atris; sporulis filiformibus, utrinque parum attenuatis, flexuosis curvatisve, obscure triseptatis, hyalinis, 18-29 ≃ 1,5. 6270

Hab. in foliis vivis Mikaniæ, Sao Francisco Brasiliæ (Ule). 6271

43. **Septoria Coprosmæ** Cooke in Grevillea XIV, p. 129. — Maculis orbicularibus, minutis, pallidis, nigro-limitatis; peritheciis paucis, semiimmersis, atris, pertusis; sporulis cylindraceis, flexuosis, obsolete guttulatis, hyalinis, 30 ≃ 2.

Hab. in foliis emortuis delapsisque Coprosmæ, New Zealand Austral. (Colenso).

44. **Septoria Symphoricarpi** E. et E. in Journ. of Myc. 1886, p. 38. — Maculis suborbicularibus, parvis, 1-2 mm. diam., albescentibus, margine obscuriore cinctis; peritheciis sublenticularibus, atris, epiphyllis, parcis, (1-5) prominulis; sporulis subcylindraceis, sursum acutis, sæpe rectis, 20-40, sæpe 30-40 ≃ 2, tenuissime 1-3-septatis. 6272

Hab. in foliis Symphoricarpi, Valley City, Dakota Amer. bor. (Pr. B. Seymour).

45. **Septoria Diervillæ** Peck 38 Rep. St. Mus. pag. 98. — Maculis suborbicularibus, albis vel cinereis, margine lato, indefinito, brunneo vel purpureo-brunneo cinctis; peritheciis epiphyllis, minutis nigris; sporulis filiformibus, curvis, flexuosis, exilibus, 25-40 μ. longis. 6273

Hab. in foliis vivis vel languidis Diervillæ trifidæ in montibus, Adirondack Amer. bor.

46. **Septoria diervillicola** E. et E. in Journ. of Myc. I, 44 (sub *S. Diervillæ*). — Maculis brunneo-atris, 2-3 mm., plerumque margine crasso, inflato, atro-purpureo cinctis; peritheciis hypophyl- 6274

lis, tenuibus, atris, innato-erumpentibus; sporidiis filiformibus, sæpe curvatis, nucleolatis, 25-35 = 4-1½, viridibus.

Hab. in foliis vivis Diervillæ trifidæ, Magnolia Am. bor. (C. H. Clarke). — «An a *S. Diervillæ* Peck satis distincta?».

47. **Septoria Tini** (Arc.) Sacc. *Phyll. Tini* Arcang. in Thüm. M. U. n. 1691. — Maculis fusco-cinerescentibus, exaridis, irregularibus v. subpolygonis, margine purpureo; peritheciis punctiformibus, prominulis, subglobosis, poro pertusis; sporulis fusiformibus 20 = 3,3, pluriguttatis, 1-septatis, hyalinis. 6275

Hab. in foliis vivis Viburni Tini, Firenze Ital. med. — Socia adest *Ascochyta Tini* (ut videtur).

48. **Septoria Phillyreæ** (G. M.) Sacc. *Hendersonia Phillyreæ* G. Machado in Roum. Rev. Myc. 1888, p. 92. — Peritheciis punctiformibus, exiguis, in greges discretos hinc inde adproximatis, epiphyllis; sporulis filiformibus, 20 = 1-1,5, guttulatis, hyalinis. 6276

Hab. in foliis siccis Phillyreæ mediæ Pinsaguel, Haute-Garonne Galliæ.

49. **Septoria submaculata** Wint. in Journ. myc. 1887, pag. 76. — Maculis subangulosis, subrufis, 1-2 mm. diam., venulis limitatis, atro-purpureo-marginatis, subinde confluentibus, infra marginatis; peritheciis brunneo-nigricantibus, subglobosis, innatis, parcis, epiphyllis, 80 μ. diam.; sporulis filiformibus, subflexuosis, continuis 16-28 = 1-1,5. 6277

Hab. in foliis Fraxini americanæ, Missouri Amer. bor.

50. **Septoria Elæagni** (Chev.) Desm. Esp. Sept. p. 4, *Depazea* Chev. Fl. Paris p. 453. — Maculis epiphyllis, minutis, rotundatis, 2-4 mm. diam., quandoque confluentibus, albidis, exaridis, ambitu brunneo cinctis; peritheciis minutissimis, nigris, subglobosis, ore orbiculari apertis; sporulis anguste cylindricis, obtusis, curvis, raro rectis, septulatis, 4-7-guttulatis, in cirros albidos expulsis, 18-20 μ. longis. 6278

Hab. in foliis Elæagni angustifoliæ in Gallia bor.

51. **Septoria Loniceræ** Allesch. Bot. Centr. 1890, II, p. 77. — Maculis orbicularibus, sæpe confluentibus, pallide viridulis, dein magnis expallentibus, vix saturatius marginatis; peritheciis epiphyllis, lenticularibus, poro amplo pertusis; sporulis filiformibus, rectis v. curvulis, utrinque obtusulis, 30-40 = 1,5, hyalinis. 6279

Hab. in foliis Loniceræ Xylostei pr. Siegsdorf in Bavaria sup.

52. **Septoria Empetri** Rostr. Fung. Groenl. p. 574. — Peritheciis 6280

epiphyllis, sparsis hemisphæricis, majusculis, nitidis; sporulis fasciculatis, acicularibus, 1-3-septatis, 20-25 ≈ 1-1,5.

Hab. in foliis Empetri nigri, Kekertak Groenlandiæ (Ryder).

53. **Septoria Chimophilæ** E. et E. Journ. Myc. 1887, p. 85. — Maculis amphigenis, albis, purpureo-limbatis; peritheciis sæpius epiphyllis, sparsis, sublenticularibus; sporulis acicularibus, 20 ≈ 1. 6281

Hab. in foliis Chimophilæ maculatæ, Faulkland Amer bor. (Commons).

54. **Septoria Unedonis** Rob. et Desm. — Syll. III, pag. 493 — var. **vellanensis** Br. et Cav. F. Parass. fasc. V, n. 121. — Maculis amphigenis, numerosis, irregularibus brunneo-rubentibus vel violaceis, demum aridis et centro albidis; peritheciis paucis, nigris, subprominulis; sporulis filiformibus, manifeste multiseptatis, 50-80 μ. long. 6282

Hab. in foliis Arbuti Unedonis, Vellano in pr. Lucca Italiæ.

55. **Septoria Arbuti** Passer. Diagn. F. N. IV, p. 13. — Maculis amplis, vagis, griseis, fusco marginatis; peritheciis amphigenis, gregariis punctiformibus tectis, passim circinantibus; sporulis cylindricis rectis vel curvulis, integris, hyalinis, 10-15 ≈ 1,3. 6283

Hab. in foliis languidis Arbuti Unedonis culti, Parma.

56. **Septoria Linnææ** (Ehrenb.) Sacc. in Bull. Soc. myc. V, p. 121. *Sphæria* (*Depazea*) *Linnææ* Ehrenb., Lasch in Kl. n. 363. — Maculis amphigenis, suborbicularibus, albis, vix marginatis; peritheciis punctiformibus, nigricantibus, epiphyllis; sporulis filiformibus, subcurvis, 45-50 ≈ 1-1,5, hyalinis, 6-7-septulatis. 6284

Hab. in foliis Linnææ borealis, Driesen Germaniæ. — *Sept. Linnææ* (Ehrenb.) Br. et Har. Journ. Bot. 1891, p. 171, species eadem videtur sed maculæ albæ foliorum describuntur brunneo-roseo-marginatæ et sporulæ 40-70 ≈ 2-3. Hæc postrema lecta fuit in eadem matrice pr. Berolinum.

57. **Septoria Caryæ** E. et E. Journ. Myc. 1887, p. 80. — Maculis amphigenis, castaneo-brunneis, infra pallidioribus, irregularibus, definite limitatis et circumcirca flaventibus; peritheciis copiosis, minutis. nigris, amphigenis; sporulis 12-16 ≈ 1,2-1,5, sæpius fortiter curvatis, nucleatis. 6285

Hab. in foliis Caryæ, Delaware Amer. bor. (Commons).

58. **Septoria musiva** Peck in Thirty-fifth Rept. St. Mus. Bot. 1884, p. 138. — Maculis parvis, numerosis, angularibus, brunneis, sæpe areolis pallidioribus, minutis, angularibus variegatis; peritheciis paucis, epiphyllis, depressis, nigris vel nigrescentibus; sporulis cy- 6286

lindraceis subtilibus, curvulis quandoque obscure triseptatis, 30-35, hyalinis.

Hab. in foliis Populi moniliferæ, Albany Amer. bor. — A *Sept. Populi* maculis musivo-variegatis et septatione sporularum diversa.

59. **Septoria osteospora** Briard Rev. Myc. 1890 Oct. — Peritheciis 6287
plus minus gregariis, globosis, erumpentibus, nigris, $^1/_8$-$^1/_7$ mm. diam., amphigenis, nucleo albo; sporulis minutis, numerosis, cylindraceis, utrinque truncatis et subcrassioribus, continuis, hyalinis, 10-12 × 2-2,5.

Hab. in foliis Populi nigræ dejectis, Troyes Galliæ (Briard).

60. **Septoria populicola** Peck 40 Rep. p. 61. — Maculis suborbicu- 6288
laribus, rubentibus vel brunneolis, supra anguste atro-marginatis, infra griseis; peritheciis hypophyllis, parcis, pallidis, late pertusis; sporulis filiformibus, curvis 2-4-septatis, 65-75 × 3-4.

Hab. in foliis vivis Populi balsamiferæ, Keene America borealis.

61. **Septoria blennorioides** (Karst.) Berl. et Vogl. Add. Syll. n. 4189, 6289
Phoma blennorioides Karst. Symb. XV, p. 153. — Peritheciis gregariis, epidermide laciniatim rupta cinctis, forma variis, ut plurimum subsphæroideis, deinde ore lato apertis, atris, 80-150 μ. diam.; sporulis bacillaribus vel filiformibus, rectis, eguttulatis hyalinis, 7-18 × 1-2.

Hab. in pag. sup. foliorum exsiccatorum Salicis pendulæ in agro mustialensi Fenniæ.

62. **Septoria didyma** Fuck. — Sacc. Syll. III, pag. 501 — **var. san-** 6290
tonensis Pass. in litt. Brunaud in Rev. Myc. 1886, p. 142. — Maculis subangulosis vel irregularibus, brunneis, subinde centro griseo-brunneis, margine subtili, obscuriore; peritheciis minutis, brunneo-nigris; sporulis cylindraceis vel subfusiformibus, medio 1-septatis, subrectis vel curvatis, 22,6-38 × 4-5, hyalinis v. subhyalinis, granulosis.

Hab. in foliis Salicis albæ, Saintes, Chaniers Galliæ.

63. **Septoria? fagicola** Speg. F. Fueg. n. 416. — Peritheciis erum- 6291
penti-superficialibus, innatis, sparsis amphigenis globuloso-depressis 180-200 μ. diam. atris, glabris subcarbonaceis, contextu indistincto, astomis? per ætatem lacero-dehiscentibus ac sæpius sporulis exsilientibus griseo-pruinulosis; sporulis cylindraceis utrinque acutiusculis 18-25 × 2-2,5, continuis, rectis, hyalinis.

Hab. ad folia viva v. languida Fagi betuloidis in silvis in

Fuegia prope London island. — Species a genere nonnihil deflectens, nunc *Phomam* nunc *Rhabdosporam* accedens.

64. **Septoria serpentaria** Ell. et Mart. Am. Not. 1884, p. 70. — Maculis castaneo-brunneis, demum obscuris, margine obsoleto, 1 mm. diam.; peritheciis atris, subglobosis, innatis, epiphyllis, 156-140 μ. d.; sporulis subhyalinis, cylindraceis, curvatis, 82-108 ≃ 4. 6292

Hab. in foliis Quercus laurifoliæ, New Florida Amer. bor.

65. **Septoria acuum** Oud. Aanw. IX-X, p. 32. — Peritheciis.....; sporulis breviter bacilliformibus, hyalinis, continuis, 16-18 ≃ $2^1/_2$-$2^1/_2$, vertice non latioribus. 6293

Hab. in acubus Pini silvestris, Wageningen Hollandiæ.

66. **Septoria Colensoi** Cooke in Grevillea XIV, pag. 89. — Maculis suborbicularibus, albidis, margine elevato, purpureo-lineato; peritheciis paucis, semiimmersis, punctiformibus, atris; sporulis rectis flexuosisve, linearibus, multinucleatis, hyalinis, 5 ≃ 1. 6294

Hab. in foliis coriaceis plantæ ignotæ (suffruticis ?) New Zealand.

67. **Septoria Hu** Speg. Guar. I, p. 150. — Maculis nullis v. pallescentibus, effusis, amphigenis, indefinitis; peritheciis sparsis v. aggregatis, lenticularibus, 100 μ. diam., membranaceis, atris, ostiolo papillulato pertusis, contextu grosse parenchymatico, pellucido, olivaceo; sporulis tereti-elongatis, 18-20 ≃ 2, utrinque subtruncato-rotundatis, rectis vel curvulis, 1-septatis, haud constrictis, hyalinis. 6295

Hab. ad folia emortua in colle Cerro Hú vocato prope Paraguarì Brasiliæ.

II. *In Dicotyledoneis herbaceis.*

68. **Septoria Thalictri** E. et E. Journ. Myc. 1888, p. 49. — Maculis amphigenis sparsis, suborbicularibus, sordide purpureo-brunneis, demum albidis, saturatius marginatis, 2-4 mm. diam.; peritheciis minutissimis, innatis, sparsis, pallidis, contra lucem tantum conspicuis; sporulis filiformibus, continuis, subrectis, 35-55 ≃ 1-1,2. 6296

Hab. in foliis Thalictri purpurascentis, Manhattan Kansas Amer. bor. (Kellerman et Swingle). — Cum *Sphærella Thalictri* genetice connexa videtur.

69. **Septoria Aquilegiæ** E. et K. Journ. Myc. 1887, p. 38. — Maculis brunneis, subangulosis, 2-4 mm. lat., atro-brunneo-marginatis, sæpe confluentibus; peritheciis brunneis lenticularibus, innatis, subprominulis, sparsis, subnumerosis, membranaceis, tenuissimis, am- 6297

phigenis, 60-80 μ. diam.; sporulis hyalinis, linearibus, subcurvis, vix guttulatis, 25-30 ≃ 1.

Hab. in foliis Aquilegiæ vulgaris, Ohio Amer. bor.

70. **Septoria Penzigii** Cocc. et Mor. Enum. Funghi della provincia 6298
di Bologna, Cent. III, p. 25, t. II, f. 28-31. — Peritheciis sparsis v. subappropinquatis, membranaceo-carbonaceis, in maculis albidis, zona brunnea, inæqualiter lata cinctis insidentibus, tectis, dein erumpentibus, globulosis, 80-95 μ. diam.; sporulis linearibus, hyalinis, septatis undulatisque, 16-24 ≃ ¾-1.

Hab. in foliis Aquilegiæ vulgaris pr. Campi di Lustrola, Bologna Ital. med.

71. **Septoria Trientalis** (Lasch) Sacc. in Bull. Soc. Myc. 1890, V, 6299
p. 121, *Sphæria* (*Depazea*) *Trientalis* Lasch in Kl. n. 364. — Maculis minutis, amphigenis, orbicularibus, candidis, obsolete fusco-limbatis; peritheciis punctiformibus, atris; sporulis filiformibus, curvulis, 24-28 ≃ 1, hyalinis, continuis.

Hab. in foliis languidis Trientalis, Driesen Germaniæ. — Diversa a *S. increscente* Peck.

72. **Septoria Berteroæ** Thüm. — Syll. III, p. 519. — Sec. Celotti Mic. Montp. p. 29, sporulæ sunt 40-60 ≃ 2. Nascitur quoque in foliis vivis Berteroæ incanæ, Montpellier Galliæ.

73. **Septoria Dentariæ** Peck in 38 Rep. St. Mus. p. 97. — Maculis 6300
latis, suborbicularibus, indefinitis, virescentibus; peritheciis minutis, numerosis, vix prominulis, epiphyllis, atris; sporulis filiformibus, subrectis, 20-30 μ. longis.

Hab. in foliis vivis vel languidis Dentariæ diphyllæ, in montibus Adirondack Amer. bor.

74. **Septoria arabidicola** Rostr. Fung. Groenl. p. 574. — Peritheciis 6301
sparsis, majusculis, hemisphæricis; sporulis cylindraceis, utrinque obtusis, rectis, 1-septatis, 10-14 ≃ 3.

Hab. ad caules et siliquas Arabidis alpinæ Sermersut Groenlandiæ (Warming et Holm). — «Potius *Rhabdosporæ* species».

75. **Septoria astragalicola** Peck Torr. Bot. Club. vol. XII, n. 4. — 6302
Maculis indefinitis v. obsoletis; peritheciis hypophyllis, lenticularibus, 125-175 μ. lat., atris; sporulis subcylindraceis, constrictis vel leniter curvatis, obtusis, 40-60 ≃ 5-6, subinde plurinucleatis.

Hab. in foliis vivis vel languescentibus Astragali pr. Arizona Amer. bor. (M. E. Jones).

76. **Septoria Anthyllidis** Sacc. in Barbey Fl. Sard. Comp. p. 249. — 6303
Maculis vagis, arescendo albicantibus, immarginatis, subinde folium

totum occupantibus; peritheciis punctiformibus, lenticularibus, pertusis, 60-100 μ. diam.; sporulis bacillaribus, leniter curvis, 25-30 ≃ 1, obsolete guttulatis, hyalinis.

Hab. in foliorum pag. inf. Anthyllidis Vulnerariæ prope Sassari Sardiniæ.

77. **Septoria Lathyri** Ell. et Ev. Journ. Myc. 1889, p. 149. — Peritheciis amphigenis, gregariis, prominulis, plerumque in soros 2-4 mm. diam., aggregatis ibique foliis leviter atratis; sporulis bacillaribus, hinc attenuatis, illinc subtruncatis, tenuiter nucleolatis, 20-30 ≃ 1,2. 6304

Hab. in foliis emortuis Lathyri latifolii culti, Newfield N. J. Amer. bor.

78. **Septoria Fautreyana** Sacc., *Septoria Lathyri* Fautr. Rev. Myc. 1891, p. 80, nec E. et E. — Maculis epiphyllis indefinitis v. obsoletis; peritheciis pallidis, majusculis, prominulis, molliusculis, sparsis, copiosis; sporulis filiformibus flexuosis, 3-4-septatis, 80-100 ≃ 3-4, hyalinis. 6305

Hab. in foliis subvivis Lathyri silvestris in silvis abietinis pr. Epoisses, Côte-d'Or Galliæ.

79. **Septoria Molleriana** Bres. Rev. Myc. 1891, pag. 68. — Maculis amphigenis, pallidis, zona rufa marginatis, circularibus; peritheciis laxe gregariis, innato-prominulis, subsphæroideis, nigris, 70-80 μ. diam., contextu parenchymatico; sporulis cylindraceis, utrinque attenuato-obtusis, curvulis, 5-septatis, 25-30 ≃ 3-4. 6306

Hab. in foliis Canavaliæ obtusifoliæ, St. Thomé prope S. José in sinu Guineæ (Moller).

80. **Septoria Meliloti** (Lasch) Sacc. Bull. Soc. Myc. V, p. 122, *Sphæria* (*Depazea*) *Meliloti* Lasch in Kl. n. 370. — Maculis amphigenis subcircularibus, minutis, pallidis, margine lineatim subelevato cinctis; peritheciis punctiformibus, late pertusis, fusco-nigricantibus; sporulis cylindraceis, utrinque rotundatis, 3-septatis, 21-22 ≃ 4, ex hyalino chlorinis; basidiis brevissimis. 6307

Hab. ad folia Meliloti vulgaris, Driesen Germaniæ. — Cl. Oudemans (Contr. Myc. 1886, p. 50) ducit *Sph. Meliloti* Lasch. ad suam *Cercosporam Meliloti*; exemplar Laschianum ab eo visum tale certe fuit, sed quod mihi prostat *Septoriam* sistit; hoc tamen non mirum ubi consideremus eamdem foliorum areolam sæpissime simul v. successive *Cercosporas Septoriasque* inhabitare.

81. **Septoria cassiæcola** Kell. et Swingle Journ. Myc. 1888, p. 94. — Peritheciis late sparsis, copiosis, amphigenis, parvis, subimmer- 6308

sis, nigris, 70-90 μ diam.; sporulis filiformibus, rectis v. subcurvis, continuis, hyalinis, 20-40 (sæpius 36) ≃ 1,5.

Hab. in foliis seminalibus seu cotyledonibus languidis Cassiæ Chamæcristæ, Manhattan, Kansas Amer. bor.

82. **Septoria Glycyrrhizæ** E. et K. Journ. Myc. 1888, p. 27. — Maculis sordide brunneis, subindefinitis, subirregularibus, 2-6 mm. diam.; peritheciis epiphyllis, minutis, copiosis, inconspicuis; sporulis cylindraceo-clavatis, 40-60 ≃ 3, continuis. 6309

Hab. in foliis vivis Glycyrrhizæ lepidotæ, Rooks Co., Kansas Amer. bor. (E. Bartholomew).

83. **Septoria Fragariæ** Desm. — Syll. III, pag. 511. — Var. **verna** Brun. Mat. Myc. Saint. p. 26. — Maculis brunneis, irregularibus, expallentibus, rufo-brunneo-marginatis; peritheciis perexiguis, parcis; sporulis rectis, cylindricis, obsolete 3-septatis, 4-guttulatis, hyalinis, 15-25 ≃ 1,5. 6310

Hab. in foliis languidis Potentillæ vernæ, Saintes Galliæ.

84. **Septoria purpurascens** E. et M. Journ. Myc. 1887, pag. 69. — Maculis purpurascentibus, 2-5 mm. diam.. sæpe confluentibus; peritheciis atris, subglobosis, innatis, subprominulis, hypophyllis sparsis, 150 μ. diam.; sporulis cylindrico-clavatis, hyalinis, sæpe curvis, 3-septatis, 40-45 ≃ 3, in massam ejectis. 6311

Hab. in foliis Potentillæ norvegicæ, New York Americæ borealis.

85. **Septoria Agrimoniæ-Eupatorii** Bomm. et Rouss. Contr. Myc. Belg. III, p. 20. — Peritheciis epiphyllis, copiosis, minutis, nigris, in macula amphigena pallide brunnea orbiculari vel irregulari sitis; sporulis filiformibus, leviter flexuosis. 30-54 × 2-2,5, granulosis, hyalinis. 6312

Hab. in foliis Agrimoniæ Eupatorii, Yvoir Belgii.

86. **Septoria Comari** Lasch in Rab. F. Eur. n. 554 (*Spilosphæria*) absque diagn. 6313

Hab. in foliis Comari in Germania.

87. **Septoria semilunaris** Johans. Svamp. fran Island. p. 173. — Peritheciis sparsis, superficialibus, productis, siccitate depressis; sporulis fusoideis, curvulis, acutiusculis, plerumque innatis, simplicibus, eguttulatis, hyalinis, 10-15 ≃ 3-5. 6314

Hab. in pedunculis emortuis Dryadis octopetalæ Eskifjördur Islandiæ orientalis.

88. **Septoria Dalibardæ** Peck 38 Rep. St. Mus. pag. 97. — Maculis minutis, albescentibus v. cinereis, rufo-brunneo-marginatis; peri- 6315

theciis minutis, epiphyllis, raris, atris; sporulis filiformibus, subrectis, 37-50 μ. longis.

Hab. in foliis vivis Dalibardæ repentis, Caroga Amer. bor.

89. **Septoria nivalis** Rostr. Fung. Groenl. pag. 573. — Peritheciis 6316
dense aggregatis, globulosis, minutissimis; sporulis fusiformibus, lunulatis, utrinque acutatis, chlorinis, guttulatis, 25 ≃ 4.

Hab. in pedunculis Saginæ nivalis, Upernivik Groenlandiæ (Rosenvinge).

90. **Septoria Viscariæ** Rostr. F. Groenl. p. 573. — Peritheciis epi- 6317
phyllis, aggregatis, in cirros albidos expulsis; sporulis cylindrico-acicularibus, 18-20 ≃ 2-3.

Hab. in foliis subvivis Viscariæ alpinæ, Sukkertoppen Groenlandiæ (Warming et Holm).

91. **Septoria Lychnidis** Desm. — Syll. III, p. 517. — Var. **pusilla** 6318
Trail Scot. Nat. 1887, p. 89, Grev. XV, p. 109. — A typo differt sporulis tantum 1-4-septatis, 35-50 ≃ 1,5-2.

Hab. in foliis vivis Lychnidis diurnæ pr. Aberdeen Scotiæ.

92. **Septoria Noctifloræ** E. et K, Journ. Myc. 1887, p. 66. — Ma- 6319
culis pallidis, rotundis vel ovatis, 2-3 mm. lat., margine angusto læte brunneo; peritheciis subglobosis, læte brunneis, tenuissimis, innatis, subprominulis, epiphyllis, 85-95 μ. diam.; sporulis subfusiformibus, 1-septatis, 30-36 ≃ 2-2,5, hyalinis.

Hab. in foliis Silenes noctifloræ, Kansas Amer. bor.

93. **Septoria dianthophila** Speg. F. Puigg. n. 425. — Maculis nullis; 6320
peritheciis sparsis, lenticularibus, poro latiusculo, 15 μ. diam. pertusis, tectis, 70-100 μ. diam.; sporulis subcylindraceis, vix curvulis, continuis vel 1-septatis, hyalinis, 20-25 ≃ 2,5, utrinque obtusulis.

Hab. ad caules exsiccatos Dianthi Caryophylli in hortis prope Apiahy Brasiliæ. — Species *S. Sinarum* et *S. Carthusianorum* peraffinis, satis, ut videtur, tamen distincta.

94. **Septoria paraphysoides** Speg. F. Fueg. n. 420. — Maculis nul- 6321
lis, sed matrice tota expallente; peritheciis sparsis, folii- v. caulicolis lenticularibus, 60-80 μ. diam., immersis, tenuissime membranaceis, contextu dense parenchymatico, fuligineo, ostiolo minuto impresso pertusis; sporulis cylindraceis, utrinque obtusis, 35-40 ≃ 1,5, flexuosulis, 1-3-septatis, non constrictis, hyalinis, corpuscula obovata minuta (an ascos immaturos?) obvallantibus.

Hab. ad folia caulesque emortua Stellariæ debilis in herbosis pr. Shammacus Fuegiæ.

95. **Septoria Telephii** Karst. Myc. Fenn. XXVIII, p. 43. — Peritheciis sparsis, erumpenti-superficialibus, sphæroideis v. ovoideis, poro pertusis, atris, punctiformibus; sporulis filiformibus, rectis v. subflexuosis, pluriguttulatis, hyalinis, 50-75 × 1,5-2,5. 6322

Hab. in foliis Sedi Telephii siccis ad Aboam Fenniæ (Onni Karsten). — A *Septoria Sedi* West. maculis nullis, peritheciis atris sporulisque filiformibus pluriguttulatis differt.

96. **Septoria Noli-tangere** Ger. Torr. Bot. Cl. 1873-74, pag, 64. — Species homonyma Thümenii — Syll. III, p. 514 — videtur eadem, sed est posterior (1880). Species Gerardiana lecta est in foliis Impatientis, Ohio et New York Amer. bor. et præbet perithecia 70 μ. diam., sæpius epiphylla et sporulas 15-30 × 2, curvulas.

97. **Septoria Oxalidis-japonicæ** Pat. in Rev. Myc. 1886, p. 84. — Peritheciis minutis, brunneo-nigris, macula rufescente insidentibus; sporulis bacillaribus, numerosissimis, 30-40 × 2, utrinque acutatis, incurvatis, septulatis. 6323

Hab. in foliis Oxalidis japonicæ, Thibet orient. Asiæ (Ab. David).

98. **Septoria malvicola** Ell. et M. Journ. Myc. 1887, p. 65. — Maculis griseis, venulis partim limitatis, 2-3 mm. diam., gregariis confluentibusque, zona flavida cinctis; peritheciis nigris, subglobosis, dein depressis, tenue membranaceis, gregatis, numerosis, sæpius epiphyllis, 90-100 μ. diam.; sporulis linearibus, hyalinis, utrinque obtusis, leniter curvis, tenuiter 3-4-septatis, 36-37 × 1. 6324

Hab. in foliis Malvæ rotundifoliæ, New York Amer. bor.

99. **Septoria Fairmani** Ell. et Ev. Journ. Myc. 1889, p. 151. — Maculis amphigenis, sparsis, subangulosis, 3-4 mm. diam., atro-brunneis, venulis sæpius limitatis, anguste atro-marginatis; peritheciis epiphyllis, sat copiosis, sparsis, atris, 100-112 μ. diam. prominulis; sporulis filiformibus, curvulis, nucleatis, 30-45 × 1,5-2, hyalinis. 6325

Hab. in foliis vivis Althææ roseæ, sociâ *Phyllosticiæ althœinæ* forma microspora (sp. 3-4 × 1,5-2), Lyndonville N. Y. Amer. bor. (Fairman).

100. **Septoria parasitica** Fautr. Rev. Myc. 1891, p. 79. — Maculis albidis, epiphyllis; peritheciis punctiformibus, innatis; sporulis cylindraceis, 30-40 × 3,5-4. 6326

Hab. in foliis Althææ roseæ, Noidan, Côte-d'Or Galliæ. — Socia adest *Ascochyta parasitica* Fautr. loc. cit., sporulis 6-9 × 3,5-4.

101. **Septoria albicans** Ell. et Ev. Proc. Phil. 1891, p. 81. — Ma- 6327

culis orbicularibus, castaneo-brunneis, subindefinitis, 2–4 mm. diam., supra leviter depressis, infra convexulis; peritheciis minutissimis, 40-50 μ. diam., epiphyllis, centro maculæ confertis; sporulis filiformibus 50-75 ≃ 1,5, tenuiter nucleatis, hyalinis, subrectis, mox ejectis et matricem leviter dealbantibus.

Hab. in foliis Saxifragæ pensilvanicæ, Genoa Junction Wis. Amer. bor. (Davis). — Peritheciis verisimiliter majora, si sporulæ 50–75 μ. longæ describuntur.

102. **Septoria Dearnessii** Ell. et Ev. Journ. Myc. 1889, pag. 151. — 6328
Maculis amphigenis, atro-brunneis, irregularibus, angulosis, 1–5 mm. diam.; peritheciis innatis, minutis, leviter prominulis, contextu obsoleto; sporulis in cirros albos ejectis, 15–22 ≃ 1,5, subrectis, continuis, eguttulatis.

Hab. in foliis Archangelicæ atro-purpureæ, London Canada (Dearness). — Ad *Cylindrosporium* nutat.

103. **Septoria Saniculæ** E. et E. Journ. Myc. 1888, p. 44. — Maculis parvis, irregularibus, subindefinitis, brunneis, maculas minores, ½–1 mm. lat., albas includentibus; peritheciis 1-3 in quaque macula minore, nigris; sporulis spiculiformibus, subcurvulis circ. 20 ≃ 1 vel minoribus. 6329

Hab. in foliis vivis Saniculæ marylandicæ, Racine, Wisconsin Amer. bor. (Dr. J. J. Davis).

104. **Septoria Cryptotæniæ** Ell. et Rau Journ. Myc. 1887, p. 50 et 1889, p. 151. — Maculis albis, demum brunneis, angulosis, venulis limitatis; peritheciis epiphyllis, erumpentibus, nigris, depresso-globosis, 100-120 μ. diam.; sporulis filiformibus, flavidis, utrinque tenuatis, tenuiter nucleolatis, leviter curvis, 20-30 ≃ 1,2-1,5. 6330

Hab. in foliis Cryptotæniæ canadensis, Pennsylvania et Delaware Amer. bor.

105. **Septoria apiicola** Speg. F. Fueg. n. 415. — Maculis amphigenis, irregularibus 2–8 mm. diam. centro albicantibus, inferne indeterminatis ac zonula obscuriore cinctis; peritheciis centralibus paucis laxe aggregatis prominulis atris lenticularibus 60-80 μ. diam. tenui-membranaceis, contextu parenchymatico, olivascente, ostiolo minuto impresso; sporulis filiformibus utrinque acutiusculis, 30-45 ≃ 1,5 hyalinis, 3–7-septatis, non constrictis, flexuosulis. 6331

Hab. ad folia viva vel languida Apii australis ubique in Staten island et Fuegia.

106. **Septoria antarctica** Speg. F. Fueg. n. 414. — Maculis amphigenis pallescentibus orbicularibus 1-3 mm. diam. determinatis; pe- 6332

ritheciis centro pauci-aggregatis immersis, lenticularibus 60-90 μ. diam. tenuissime membranaceis, contextu parenchymatico vix perspicuo pallide olivaceo, ostiolo impresso minuto; sporulis filiformibus utrinque obtusiusculis 30-40 ≃ 1 rectis v. flexuosulis, minute denseque guttulatis (an septulatis?), hyalinis.

Hab. ad folia languida Chrysosplenii macranthi in Picton island Fuegiæ.

107. **Septoria posoniensis** Bäumler in Hedw. 1885, pag. 75. — Peritheciis in maculis rotundatis seu irregularibus, griseo-viridulis vel cinereis, margine angusto, obscuriore cinctis, epiphyllis, gregariis, minutissimis, immersis, globosis, ostiolo pertuso erumpentibus, tenuissime membranaceis, fuscidulis, 60-90 μ. diam.; sporulis filiformibus, tenuissimis, flexuosis, 20-40 ≃ 1, hyalinis. 6333

Hab. in foliis vivis Chrysosplenii alternifolii prope Pressburg Hungariæ.

108. **Septoria Eryngii** West. V. Not. 31 (nec Pass.). — Maculis amphigenis, irregularibus, angulosis, a nervis foliorum limitatis, albidis, subinde brunneo-cinctis; peritheciis minutis, nigris, sparsis, maculas griseo colorantibus; sporulis in cirrum albidum exeuntibus, cylindraceis, rectis, 50 ≃ 2,5. 6334

Hab. in foliis Eryngii maritimi in Belgio. — *S. Eryngii* Pass. Syll. III, p. 532, monente cl. Oudemans in litt., diversa est et nominetur **S. eryngicola** Oud. et Sacc.

109. **Septoria Weissii** Allesch. in Allesch. et Schnabl. Fungi bav. n. 186. — Maculis nullis; peritheciis ut plurimum hypophyllis, rotundatis, depressis, fuscis; sporulis filiformibus, arcuatis vermicularibusve, utrinque obtusis, guttis numerosis farctis vel multiseptatis, hyalinis, 50-80 ≃ 2-3. 6335

Hab. in pagina inferiore foliorum Chærophylli hirsuti prope Oberammergau Bavar. sup. (Allescher).

110. **Septoria Centellæ** Wint. Grev. XV, p. 92. — Maculis sparsis v. subgregariis, plerumque magnis, rotundatis vel irregularibus, sæpe angustatis, usque 5 mm. latis, haud raro confluentibus, fuligineis, centro pallidiori, arescendo griseis v. albicantibus, zona lata, atro-purpurea, indeterminata cinctis; peritheciis in centro macularum gregariis sparsisve, minutis, globosis, atris, vertice erumpentibus, poro pertusis; sporulis filiformibus, tenuissimis, rectis vel subflexuosis, indistincte pluri-septatis, utrinque attenuatis, hyalinis, 30-45 ≃ 2. 6336

Hab. in foliis vivis Centellæ asiaticæ, Sao Francisco Bra-

siliæ (Ule). — A ceteris speciebus *Septoriæ* in Hydrocotyle parasiticis maculis et sporularum longitudine valde differt.

111. **Septoria Osmorrhizæ** Peck 39 Rep. p. 46. — Maculis minutis, subangulosis vel irregularibus, brunneis; peritheciis epiphyllis 100-125 μ. diam., leviter exstantibus, centro depressis, rufo-brunneis vel succineis; sporulis filiformibus, plus minus curvis vel flexuosis, hyalinis, 50-60 × 4, in cirrum albidum ejectis. 6337

Hab. in foliis vivis Osmorrhizæ longistylæ, Schoharie Amer. bor.

112. **Septoria unicolor** Wint. in Journ. of Myc. 1885, p. 123. — Maculis angulosis vel rotundatis, olivaceis, plerumque determinatis, rarius indeterminatis, concolori-marginatis, usque 5 mm. magnis, sed plerumque minoribus; peritheciis epiphyllis, minutissimis, sparsis, globosis, tenuissime membranaceis; sporulis filiformibus, sæpe flexuosis, hyalinis, non vel vix visibile septatis, 36-32 × 1. 6338

Hab. ad folia viva Mulgedii acuminati, Missouri Amer. bor. — A *Septoria Mulgedii* et aliis speciebus in Compositis lectis valde diversa.

113. **Septoria consimilis** E. et M. in Journ. of Myc. I, p. 100. — Maculis brunneis, non definite limitatis ½-1 cm. diam.; peritheciis brunneis, subglobosis, innatis, amphigenis, 90-100 μ., sparsis in parte superiore macularum, in utraque pagina foliorum conspicuis; sporulis filiformibus, multinucleatis, leniter curvatis, sæpe utrinque obtusis, 30-45 × 2-2 ½, hyalinis. 6339

Hab. in Lactuca culta Geneva et Newfield Amer. bor. (Arthur). — Nonnullis notis a *Sept. Lactucæ* certe distinguenda.

114. **Septoria Prenanthis** Ell. et Ev. Journ. Myc. 1889, p. 150. — Maculis sparsis, suborbicularibus, sordide albis purpureo-marginatis 2-3 mm. diam., tenuibus; peritheciis amphigenis, sparsis, suberumpentibus, flavidis; sporulis filiformibus, curvulis, continuis, 15-22 × 1-1,2. 6340

Hab. in foliis Prenanthis, Racine Wis. Amer. bor. (Davis).

115. **Septoria centaureicola** Brun. Champ. Saint. 1887, p. 430. — Maculis orbicularibus, brunneo-purpureis, centro albescentibus; peritheciis epiphyllis, parcis, punctiformibus, nigris; sporulis filiformibus, rectis v. subflexuosis, 60-65 × 1-1,5, continuis, hyalinis. 6341

Hab. in foliis Centaureæ Scabiosæ, Rochefort Galliæ.

116. **Septoria Commonsii** Ell. et Ev. Journ. Myc. 1889, p. 150. — Maculis atro-brunneis, subrotundis, 2-4 mm. diam., centro albidis, infra tomento obscuratis; peritheciis epiphyllis, minutis, aggregatis, 6342

atris, subprominulis; sporulis filiformibus, leniter curvis, continuis, nucleolatis, 25-40 ≃ 1-1,2.

Hab. in foliis Cnici altissimi, Faulkland Del. Amer. bor. (COMMONS). — A *Sept. Cirsii* maculis diversa.

117. **Septoria nubilosa** E. et E. Proc. Ac. Phil. 1891, p. 76. — Affinis *S. Helenii*, a qua differt maculæ definitæ defectu, peritheciis minutis, epiphyllis, prominulis, in soros orbiculares 0,5-1 cm. lat. collectis; sporulis bacillaribus, 25-30 ≃ 1,5-2 nucleatis, uno apice acutioribus. 6343

Hab. in foliis Helenii autumnalis, Racine, Wis, Amer. bor. (DAVIS).

118. **Septoria Helenii** E. et E. Journ. Myc. 1887, p. 87. — Maculis amphigenis, 2-4 mm. diam., atris, demum sordide albis, margine atro subelevato; peritheciis 100 μ. diam., epiphyllis, contextu parenchymatico, pallido, ostiolis minutis, nigris, perforatis; sporulis vermicularibus, 20-35 × 2, uni-triseptatis. 6344

Hab. in foliis Helenii autumnalis, Racine, Wis. Amer. bor. (DAVIS).

119. **Septoria Balansæ** Speg. Guar. I, p. 149. — Maculis indefinitis, effusis, centro fuscellis, pallide limbatis, 3-10 mm. diam., subamphigenis; peritheciis laxe aggregatis, lenticularibus, 90-100 μ. diam., atris, velatis, membranaceis, ostiolo rotundo pertusis, contextu obsolete parenchymatico fusco-olivaceo; sporulis linearibus utrinque acutiusculis, falcatis v. hamatis, 12-18 × 0,5-1, hyalinis, non v. obsolete pluriseptatis. 6345

Hab. in foliis vivis Bidentis helianthoidis et Verbesinæ prope Pirayú et Paraguarì Brasiliæ.

120. **Septoria pauper** Ellis in Journ. Myc. 1887, p. 67. — Maculis brunneis, angulosis, amphigenis, supra saturatius coloratis, 0,5-1,5 mm. diam.; peritheciis brunneis, subglobosis, tenuibus, innatis, leviter prominulis, hypophyllis, 125-130 μ. diam.; sporulis filiformibus, rectis v. flexuosis, utrinque obtusis, hyalinis, 45-55 ≃ 1-1,5. 6346

Hab. in foliis Helianthi divaricati, New Jersey in America boreali.

121 **Septoria fusca** Peck 40 Rep. p. 60. — Maculis atro-brunneis, indefinitis, lobos v. marginem foliorum occupantibus; peritheciis epiphyllis, nigris; sporulis filiformibus, rectis v. leviter curvis v. flexuosis, 40-50 μ. longis. 6347

Hab. in foliis subvivis Artemisiæ vulgaris, Port Henry Amer. borealis.

122. **Septoria Cacaliæ** E. et K. Am. Nat. XVII, p. 1164, Journ. Myc. 1887, p. 40. — Maculis rubiginoso-brunneis v. centro griseis, margine elevato, brunneo, 2-5 mm. lat.; peritheciis nigris, lenticularibus, innatis, subprominulis, sparsis, plerumque epiphyllis, 90-100 μ. diam.; sporulis hyalinis, linearibus, subrectis, evanide guttulatis, 30-45 = 1,5-2. 6348

Hab. in foliis Cacaliæ tuberosæ et C. atriplicifoliæ, Kansas et Florida Amer. bor.

123. **Septoria cercosporoides** Trail Scot. Nat., 1887, p. 89, Grev. XV, p. 109. — Maculis irregularibus, male definitis, nigris, in pagina superiore folii magis conspicuis; peritheciis gregariis, ellipsoideis 90 = 70, pallide brunneis; sporulis clavulatis, uno apice obtuso, subhyalinis, 6-8-septatis. 6349

Hab. in foliis Chrysanthemi Leucanthemi, Montrose Scotiæ.

124. **Septoria Erechtitis** E. et Ev. Proc. Acad. Phyl. 1891, p. 80. — Maculis brunneis, numerosis, suborbicularibus v. ellipticis vel subangulatis, venulis folii partim limitatis; peritheciis epiphyllis, parvis, nigris, erumpentibus, subglobosis, supra pertusis; sporulis 20-30 = 1,5, multiguttatis, subrectis vel prope medium abrupte curvatis. 6350

Hab. in foliis vivis Erechtitis hieraciifoliæ, Wilmington, Del. Amer. bor. (Commons).

125. **Septoria infuscata** Winter in Journ. of Myc. 1885, p. 122. — Maculis magnis, rotundatis v. irregularibus, sordide griseis, sæpe variegatis et subzonatis, area perlata, fusca, indeterminata cinctis, usque 20 mm. longis, 6 mm. latis; peritheciis sparsis gregariisve, prominulis, globosis, atris, tenuissime membranaceis, 87-105 μ. diam.; sporulis filiformibus, utrinque rotundatis, sursum perparum incrassatis, multiseptatis, hyalinis, 50-70 = 1,5-2. 6351

Hab. ad folia viva Lepachidis pinnatæ, Missouri in America boreali.

126. **Septoria Buphthalmi** Allesch. in Allesch. et Schnabl, F. bavar. n. 187. — Maculis minutis, irregularibus, amphigenis, purpureis v. olivaceis, demum expallentibus, emarginatis; peritheciis minimis, punctiformibus, atris; sporulis filiformibus, rectis curvatisve, utrinque obtusis, 3-septatis, hyalinis, circ. 24-30 = 2,5. 6352

Hab. in foliis adhuc vivis Buphthalmi salicifolii pr. Oberammergau Bavar. super. (Allescher).

127. **Septoria Martiniæ** Cooke Grev. XIX, p. 5. — Maculis epiphyl- 6353

lis, griseis, confluentibus, atro-cinctis; peritheciis punctiformibus, globoso-depressis, membranaceis, pertusis; sporulis cylindraceis, curvulis vel flexuosis, 20-40 = 3 multi-guttulatis, demum 3-5-septatis, hyalinis.

Hab. in foliis Senecionis Bedfordii, Victoria Australiæ (Domina Martin). — Affinis *S. anaxææ.*

128. **Septoria Websteri** Speg. F. Fueg. n. 422. — Maculis epiphyllis, orbicularibus, minutis, 1-2 mm. diam., densiuscule aggregatis, sæpe confluentibus, determinatis, pallide rufescentibus; peritheciis laxe aggregatis, immersis, lenticularibus, 70-80 μ. diam., tenuissime membranaceis, contextu parenchymatico, ostiolo late impresso pertusis; sporulis cylindraceis, utrinque acutiuscule rotundatis, 25-40 = 2-2,5, rectis vel flexuosulis, 1-3-septatis, non constrictis, hyalinis. 6354

Hab. ad folia viva vel languida Senecionis Websteri in Port Vancouver in Staten island Fuegiæ.

129. **Septoria Rudbeckiæ** Ell. et Halst. Journ. Myc. 1890, p. 33. — Maculis conspicuis v. brunneo-subalutaceis, 2-4 mm. diam., irregularibus angulosis, atro-marginatis haloneque purpurascente circumdatis; peritheciis epiphyllis, sparsis, prominentibus, subacutis, nigris; sporulis filiformibus, subrectis, multinucleatis, 30-36 = 1,5-2. 6355

Hab. in foliis Rudbeckiæ laciniatæ et R. hirtæ, Northern New Jersey Amer. bor. (Helsted) et Wilmington Del. (Commons). — Affinis *Sept. Helianthi.*

130. **Septoria Silphii** E. et E. Journ. Myc. 1887, p. 86. — Maculis amphigenis, 2-5 mm. diam., sordide brunneis, infra pallidioribus, subrotundis vel venulis limitatis, leviter elevatis; peritheciis sublenticularibus, sæpius epiphyllis; sporulis filiformibus, 35-50 = 1, subrectis, tenuiter nucleolatis. 6356

Hab. in foliis Silphii perfoliati, Ames Jowa Amer. bor. (Helsted).

131. **Septoria Punicei** Peck in 38. Rep. St. Mus. p. 97. — Maculis 4-8 mm. latis, indefinitis, supra brunneo-nigrescentibus, subtus brunneis v. rufo-brunneis; peritheciis hypophyllis; sporulis longis, flexuosis, filiformibus, 100-110 μ. longis, hyalinis. 6357

Hab. in foliis vivis Asteris punicei, Caroga Amer. bor.

132. **Septoria astericola** Ell. et Ev. Journ. Myc. 1889, pag. 150. — Maculis amphigenis, atro-brunneis, subindefinite limitatis, late flavo-limbatis, 3-4 mm. diam. (sine halone); peritheciis innatis, de- 6358

mum suberumpentibus, numerosis, sparsis, 75 μ. diam., vix visibilibus, læte brunneis; sporulis subrectis, filiformibus, 30-45 = 1-1,2.

Hab. in foliis Asteris cordifolii, Magnolia Mass., Wisconsin Amer. bor. (CLARKE, COMMONS, DAVIS).

133. **Septoria intermedia** Ell. et Ev. Journ. Myc. 1889, p. 150. — 6359
Maculis minutis, 1 mm. diam., sparsis, subconfluentibus, sordide altis, atro-purpureo-marginatis; sporulis subrectis, hyalinis, nucleatis, 15-25 = 1-1,5.

Hab. in foliis Solidaginis (junceæ?), Racine, Wisc. Amer. bor. (DAVIS). — A *Sept. atropurpurea* sporulis multo brevioribus recedit.

134. **Septoria fumosa** Peck in 38 Rep. St. Mus. p. 98. — Maculis 6360
angularibus v. irregularibus, sæpe confluentibus, fumose-brunneis v. griseo-brunneis, obscure marginatis; peritheciis epiphyllis, 62-75 μ. diam., atris; sporulis filiformibus, 30-50 μ. longis.

Hab. in foliis vivis v. languidis Solidaginis canadensis, Albany Amer. bor.

135. **Septoria Davisii** Sacc., *Septoria canadensis* Ell. et Davis Proc. 6361
Acad. Phil. 1891, p. 80, nec Peck. — Maculis amphigenis, suborbicularibus, 2-3 mm. diam., rubiginoso-brunneis, dein centro pallidioribus, margine purpureo cinctis; peritheciis minutis et inconspicuis, amphigenis, sed sæpius epiphyllis; sporulis vermiculari-cylindraceis, 33-45 = 1,5-2, guttatis, dein evanide circ. 3-septatis.

Hab. in foliis Solidaginis canadensis, Racine, Wis. Americæ borealis.

136. **Septoria brevis** Peck 40 Rep. p. 61. — Maculis nullis; peri- 6362
theciis sparsis, epiphyllis, minutis, 70-100 μ. diam., late pertusis, nigris; sporulis brevibus, 10-13 = 1,5, rectis v. curvulis.

Hab. in foliis vivis Solidaginis Virgaureæ var. alpinæ Mt. Marcy Amer. bor.

137. **Septoria solidaginicola** Peck 40 Rep. p. 61. — Maculis minu- 6363
tis, angulosis, albis v. albidis, infra obscurioribus, margine brunneo v. rubente cinctis; peritheciis 1-2 in quaque macula, epiphyllis, subglobosis, nigricantibus; sporulis linearibus, rectis, subacutis, continuis, 25-40 = 4.

Hab. in foliis vivis Solidaginis auratæ, Cobble hill. pr. Elizabethtown Amer. bor.

138. **Septoria dolichospora** Ell. et Ev. Proc. Acad. Phil. 1891, p. 80. 6364
— Maculis in epiphyllo convexis, in hypophyllo concavis, 1-2 mm. diam., supra dealbatis, plerumque irregulariter gregariis, subtus

sordide pallidis, demum hinc inde albis; perithecis epiphyllis, sparsis, copiosis, 75-100 μ. diam.; sporulis 70-110 = 1,5, continuis, indistincte guttatis, hyalinis.

Hab. in foliis Solidaginis latifoliæ, London, Canada Am. bor. (DEARNESS). — Differt a *S. solidaginicola* foliis bullato-rugosis, peritheciis majoribus et sporulis multo longioribus.

139. **Septoria gallarum** E. et E. Journ. Myc. 1888, p. 103. — Peritheciis sparsis, minutis, erumpentibus, nigris; sporulis lineari-cylindraceis, subcurvis, flavido-hyalinis, guttatis, 35-45 = 1,5, copiosis. 63 5

Hab. in gallis vetustis Solidaginis, Pratt's Falls, N. Y. Amer. bor. (UNDERWOOD et COOK).

140. **Septoria Xanthifoliæ** E. et K. in Journ. Myc. 1887, p. 79. — Maculis læte brunneis, irregularibus, sparsis, 1 mm. lat., indefinite marginatis; peritheciis atris, minutis, prominulis, sat numerosis, epiphyllis, 70 μ. diam.; sporulis ex hyalino flavidis, linearibus, curvulis, tenuiter nucleolatis, 20-35 = 1,5-2. 6366

Hab. in foliis Ivæ xanthifoliæ, Kansas Amer. bor.

141. **Septoria bacilligera** Winter in Journ. of Myc. 1885, p. 122. — Maculis parvis, angularibus v. irregularibus, interdum confluentibus, plerumque 1 mm. diam., candidis exaridisque, linea atra cinctis; peritheciis sparsis, minutissimis, globosis, membranaceis, poro pertusis, atris, 80-90 μ. diam; sporulis numerosissimis, bacilliformibus, sæpe uno apice parum incrassatis, 1-3-septatis, demum ad septa constrictis, hyalinis, plerumque rectis, 9-23 = 3-3,5. 6367

Hab. ad Ambrosiæ trifidæ folia viva, Missouri Amer. bor.

142. **Septoria Cephalariæ-alpinæ** Roum. in Rev. Myc. 1885, p. 174. — Maculis epiphyllis, albescentibus, numerosis, parvis, difformibus, 3-9-aggregatis, sæpius confluentibus, margine purpureo cinctis; peritheciis punctiformibus, nigris, 100-200 μ. diam.; sporulis filiformibus, tortuosis, 50-60 = 1-1,5, 5-7-septatis, lutescentibus. 6368

Hab. in foliis languescentibus Cephalariæ alpinæ, Rouen Galliæ (AB. LETENDRE).

143. **Septoria Asperulæ** Bäuml. F. Schemn. p. 4. — Maculis primo irregularibus dein totum folium occupantibus, arescendo griseis, fusco-cinctis; peritheciis gregariis globosis, minutis, 60-80 μ. diam., contextu tenue membranaceo, ochraceo-fuligineo, ostiolo parvulo pertusis; sporulis elongato-filiformibus, curvulis, utrinque tenuatis, pluriguttulatis, 40-50 = 2, hyalinis. 6369

Hab. in foliis vivis Asperulæ odoratæ pr. Pencow, Schemnitz Hungariæ.

144. **Septoria Aparines** Ellis et Kell. Journ. Myc. 1889, p. 142. — 6370
Maculis nullis; peritheciis minutis, 40-50 μ. diam., subinde 160-208 μ. diam., sparsis; sporulis filiformibus, rectis v. subundulatis, tenuiter nucleolatis, continuis, utrinque acutis, 40-80 = 1,5-2, plerumque 50-60 = 2.

Hab. in foliis caulibusque emortuis Galii Aparines, Manhattan, Kans. Amer. bor. (Kellerman et Swingle).

145. **Septoria polemoniicola** E. et M. Journ. Myc. 1887, pag. 79. — 6371
Maculis amphigenis, supra distinctis, 0,5-1 mm. diam., albis, defi nitis, numerosis; peritheciis epiphyllis, minutis, sublenticularibus, atro-brunneis, parcis; sporulis filiformibus, subrectis, flavido-hyalinis, nucleolatis, plerumque 25-35 = 1.

Hab. in foliis Polemonii reptantis, Perryville Amer. bor. (Demetrio).

146. **Septoria centranthicola** Brun. Suppl. Sphæroid. p. 4. — Macu- 6372
lis epiphyllis, mediis, angulosis v. irregularibus, sordide albis, margine tenui brunneo-virente, elevatulo cinctis et in areis amplis rufescentibus æque limbatis, sparse v. confertim sitis; peritheciis minutis, parcis, sparsis; sporulis bacillari-elongatis, rectis, hyalinis, 22-45 = 1,5-2, continuis.

Hab. in foliis languidis Centranthi rubri, Saintes Galliæ.

147. **Septoria Pirolæ** Ell. et Mart. in Journ. of Myc. 1885, p. 100. 6373
— Maculis luteo-albis, hypophyllis sed etiam in pagina superiore foliorum conspicuis, internerviis, margine brunneo-cinctis; peritheciis atris, sursum perforatis; sporulis filiformibus, 25-35 = 0,75 utrinque obtusis, vix curvulis.

Hab. in foliis vivis Pirolæ secundæ, Red Rock, Lake Superior Amer. bor. (Prof. J. Macoun).

148. **Septoria Citrulli** E et E. Journ. Myc. 1888, p. 102. — Peri- 6374
theciis plerumque solitariis, maculis rotundis, albis, sparsis, 1 mm. lat., insidentibus, subprominulis; sporulis cylindraceis v. clavato-cylindraceis, guttatis, hyalinis, 10-25 = 1,5-2, curvis.

Hab. in foliis languidis Citrulli, Vineland, N. Jersey Amer. bor. (A. W. Pearson). — Verisimiliter forma foliicola *S. vestitæ*.

149. **Septoria Sicyii** Peck in Thirty-fifth Rep. St. Mus. Bot. 1884, 6375
p. 137. — Maculis parvis, suborbicularibus, sparsis vel raro subconfluentibus, albis vel cinereis, aridis; peritheciis paucis, epiphyllis, nigrescentibus; sporulis filiformibus, rectis vel curvis, 40-60 μ. longis, hyalinis.

Hab. in foliis vivis Sicyii angulati, Albany Amer. bor.

150. **Septoria Salviæ-pratensis** Pass. Fung. Gall. novi in Journ. d'Hist. nat. 1885, n. 4, p. 16. — Maculis subrotundis vel angulosis, brunneis, saturatius marginatis; peritheciis numerosis, globoso-lenticularibus, atris; sporulis bacillaribus, integris, hyalinis, 30-32 μ. long. 6376

Hab. in foliis Salviæ pratensis prope Breuil-Magné in Gallia (Brunaud). — A *Septoria Salviæ* differt sporulis dimidio brevioribus.

151. **Septoria Leptostachyæ** E. et K. Journ. myc. 1887, pag. 63, — Maculis pallide brunneis, subrotundis, sparsis confluentibusque, siccis, venulis plerumque limitatis, 2-4 mm. lat.; peritheciis atro-brunneis tenuissimis, prominulis, amphigenis, sparsis, 65-80 μ. diam.; sporulis filiformibus, hyalinis, leniter undulato-curvis, continuis, 20-22 × 1. 6377

Hab. in foliis Phrymæ leptostachyæ, Ohio Amer. bor.

152. **Septoria Nepetæ** E. et E. Journ. Myc. 1888, p. 44. — Maculis purpureo-brunneis, margine rubente vel purpurascente cinctis, in ambitu subirregularibus, circ. 2 mm. diam., centro albis; peritheciis sæpius epiphyllis, lenticularibus, non copiosis; sporulis subrectis, guttulatis, 30-40 × 1,5. 6378

Hab. in foliis Nepetæ Catariæ, Racine, Wis. Amer. bor. (Doct. J. J. Davis).

153. **Septoria Lamii** Pass. — Syll. III, p. 538 — var. **Lamii-maculati** Mass. Contr. Mic. Veron. p. 139. — Maculis amphigenis, minutis, exaridis, suborbicularibus, colore subpurpureo-sanguineo-areolatis; peritheciis 1-4 minutisismis, 70-90 μ. diam.; sporulis linearibus, subcurvulis, hyalinis, continuis, 10 × 1,5-2. 6379

Hab. in foliis Lamii maculati, Valdonega prope Veronam Italiæ borealis.

154. **Septoria Trichostematis** Peck 42 Rep. p. 30. — Maculis plerumque amplis, 1-2 in quoque folio, brunneo-griseis, sæpius late purpureo-marginatis; peritheciis epiphyllis, minutis, 70-100 μ. diam., nigris; sporulis bacillaribus, tenuibus, rectis curvulisve, 30-40 μ. long. 6380

Hab. in foliis vivis Trichostematis dichotomi, Manor Amer. bor.

155. **Septoria Trailiana** Sacc. *Septoria Prunellæ* Trail Scot. Nat. 1887, p. 89, Grev. XV, p. 110. — Maculis irregularibus, venulis foliis latioribus limitatis; peritheciis numerosis, innatis; sporulis subhyalinis, filiformibus, 45 × 1, multiseptatis. 6381

Hab. in foliis vivis Brunellæ vulgaris pr. Ballater Scotiæ.

156. **Septoria Brunellæ** E. et H. in Journ. of Myc. I, (1885), p. 6. 6382
— Maculis atro-nigris, margine brunneo, subtili limitatis; perithecis crassis, sparsis in parte superiore macularum, atris, leviter prominentibus, 100-130 μ. diam.; sporulis clavatis, subfuscis, multiseptatis, angustis, 40-75 = $1^1/_2$-2.

Hab. in foliis Brunellæ vulgaris in America boreali.

157. **Septoria Mentzeliæ** Ellis et Kellerm. in Journ. of Myc. 1886, 6383
pag. 4. — Maculis amphigenis, pallidis, definitis, $^1/_4$-$^1/_2$ cm. diam.; peritheciis immersis, perspicuis in utraque foliorum pagina, nigris, 100 μ. diam.; sporulis filiformibus, subundulatis, nucleolatis, 40-60 = $1^1/_4$-$1^1/_2$, hyalinis.

Hab. in foliis vivis Mentzeliæ nudæ, Kansas Amer. bor.

158. **Septoria Swertiæ** Pat. in Rev. Myc. 1886, pag. 181. — Macu- 6384
lis circularibus, epiphyllis, rufis; peritheciis minutis, atris, centro macularum congestis; sporulis filiformibus, hyalinis, curvatis, 20-23 = 1, continuis, eguttulatis.

Hab. in foliis Swertiæ, Yunnan Sinarum (Ab. Delavay).

159. **Septoria rhaphidospora** C. Mass. Contr. Mic. Var. p. 93, t. II, 6385
f. 15. — Maculis pallide fuscis vel subfuligineis; peritheciis nigris, minutis, 60-80 μ. diam., globulosis, ostiolo vix prominulo, gregariis, parietibus submembranaceis; sporulis tenuissimis, acicularibus, 18-24 = 1, hyalinis, minute guttulatis, subcurvulis, continuis.

Hab. in bracteis calycibusque Gentianæ utriculosæ, rupi di Malera in M. Lessini agri veronensis. — Ab affini *S. microsora* abunde diversa.

160. **Septoria Anagallidis** Rich. Cat. Camp. Marn. n. 1759. — Perithe- 6386
ciis in centro maculæ flavidæ sitis.....

Hab. in foliis inferioribus Anagallidis, Marne Galliæ.

161. **Septoria Androsaces** Pat. in Rev. Myc. 1888, p. 84. — Peri- 6387
theciis minutis, nigris, numerosis, macula nigra, epiphylla insidentibus; sporulis numerosis, filiformibus, hyalinis, 39-45 μ. long.

Hab in foliis emortuis Androsaces rotundifoliæ, Lankong, Yunnann Sinarum (Ab. Delavay).

162. **Septoria Lubiniæ** Pat. in Rev. Myc. 1886, p. 84. — Peritheciis 6388
parcis, macula hypophylla, decolorata insidentibus; sporulis filiformibus, hyalinis, obscure septulatis, 48-60 μ. long.

Hab. in foliis Lubiniæ, Thibet Asiæ (Ab. David).

163. **Septoria Primulæ** Bucknall in Grevillea XIV, pag. 40. — Epi- 6389
phylla; maculis pallidis, orbicularibus, brunneo-marginatis, sparsis; peritheciis paucis, punctiformibus, semiimmersis, atris, centro

pallidiori macularum insidentibus; sporulis linearibus, rectis, hyalinis, 47 μ. longis.

Hab. in foliis Primulæ, Leigh Wood in Britannia.

164. **Septoria conspicua** Ell. et M. Journ. myc. 1887, p. 64. — Maculis amphigenis, rubiginoso-brunneis, suborbicularibus, 2–5 mm diam., confluentibus, 1 cm. lat., margine angusto elevatulo; peritheciis amphigenis, nigris, convexis, numerosis, 100–130 μ. diam.; sporulis filiformibus, 40–55 ≃ 1-1,2, nucleatis, subhyalinis. 6390

Hab. in foliis Steironematis ciliati, Delaware Amer. bor. (Commons). — A *Sept. Lysimachiæ* sat diversa.

165. **Septoria maculifera** Sacc. *S. maculosa* Ger. in Journ. myc. 1887, p. 53 nec Lév. — Maculis griseis vel subrufescentibus, suborbicularibus vel elongatis, 3 mm. lat.; peritheciis subglobosis, innatis, prominulis, centro maculæ dense gregatis, epiphyllis, 84 μ. diam.; sporulis filiformibus, hyalinis, leniter curvis, 25–40 ≃ 1,5. 6391

Hab. in foliis Cupheæ viscosissimæ, New York et Pennsylvania Amer. bor.

166. **Septoria flagellaris** Ell. et Ev. in Bull. Torr. bot. Club. 1883, p. 97. — Maculis orbicularibus, rufo-brunneis, 1–2 mm. diam., definite limitatis, concentrice rugosis, subinde albescentibus, in pagina superiore foliorum; peritheciis in quaque macula solitariis, centrum occupantibus vel 2–3 coalitis, sublenticularibus, 80–120 μ. diam.; sporulis nucleatis vel 4–8-septatis, 35–44 × 1,5, uno apice latioribus, altero gradatim attenuatis. 6392

Hab. in foliis vivis Calystegiæ sepium, Newfield Amer. bor. — A *S. Convolvuli* et *S. sepium* probe distinguenda.

167. **Septoria Convolvuli** Desm. — Sacc. Syll. III, pag. 536 — var. **Soldanellæ** Brun. Liste Sphærops. p. 49. — Sporulis filiformi-acicularibus, rectis, curvis vel tortuosis, 40–60 ≃ 0,5-1, parce guttulatis. In foliis Convolvuli Soldanellæ, Saintes Galliæ.

168. **Septoria obscura** Trail Trans. Crypt. Scot. 1889, p. 46. — Maculis arescendo sordide brunneis, orbicularibus vel irregularibus, anguste et obsolete atro-marginatis; peritheciis innatis, amphigenis, sparsis, minutis, atris, ostiolo brevi; sporulis cylindrico-filiformibus, utrinque obtusis, 22–35 ≃ 1,5, curvulis, triseptatis, flavidis. 6393

Hab. in foliis vivis Campanulæ rotundifoliæ, Hell's Glen, Clyde Scotiæ.

169. **Septoria Divaricatæ** Ell. et Ev. Journ. Myc. 1889, p. 151, *Sept. Phlogis* E. et E. Journ. Myc. III, p. 85, nec S. et S. — Maculis 6394

albidis; peritheciis punctiformibus; sporulis 15-35 = 1, plerumque 20-25 = 1 subrectis, tenuissime nucleolatis.

Hab. in foliis vivis Phlogis divaricatæ, Jowæ et Lyndonville Amer. bor. — *Sept. Phlogis* differt maculis albis, sporulis 40-60 = 1-2, flexuosis, 1-3-septatis.

170. **Septoria Stenhammariæ** Rostr. Fung. Groenl. p. 574. — Peritheciis sparsis, lenticularibus, umbilicatis, majusculis; sporulis bacillaribus, strictis, guttulatis, 25-30 = 1. 6395

Hab. in caulibus Stenhammariæ maritimæ, Godhavn Groenlandiæ (Rink).

171. **Septoria veronicicola** Karst. Symb. XXI, p. 104. — Maculis nullis; peritheciis epiphyllis, laxe gregariis, prominulis, lenticularibus, atris, poro angusto pertusis, 0,1 mm. diam.; sporulis bacillaribus utrinque obtusis, rectis vel subflexuosis, pluriguttulatis vel tenuiter 1-septatis, hyalinis, 15-25 = 2-3; basidiis brevissimis. 6396

Hab. in foliis semiemortuis Veronicæ officinalis prope Tammeforsiam Fenniæ.

172. **Septoria Ellisii** Berl. et Vogl. Add. Syll. n. 4510, *Septoriæ Gratiolæ* E. et M. in Jour. of Myc. I, p. 107. — Peritheciis punctiformibus, minutis, emergentibus, sparsis, in parte exsiccata foliorum sed non in maculis definitis; sporulis filiformibus, nucleolatis, rectis vel subinde curvatis, continuis, 30-40 = $^3/_4$-1. 6397

Hab. in foliis languidis Gratiolæ quadridentatæ, Florida Amer. bor. (F. R. Scribner). — «An diversa a *S. Gratiolæ* S. et Sp.? n.

173. **Septoria Mimuli** Wint. in Journ. of Myc. 1885, p. 122. — Maculis sparsis vel gregariis, rotundatis angulatisve, interdum irregularibus et confluentibus, arescendo albidis, griseo- vel sordide-fuscescentibus, margine lato, distincto, purpureo vel fusco et zona indeterminata, fuscescenti cinctis, $^1/_2$-3 mm. latis; peritheciis solitariis vel parcis punctiformibus, atris, globosis, 60-90 μ. latis; sporulis cylindricis, utrinque attenuatis, remote septatis, hyalinis, curvatis, 35-45 = 2,5. 6398

Hab. ad folia viva Mimuli ringentis, Missouri Amer. bor.

174. **Septoria acanthina** Sacc. et Magn. Misc. Myc. II, n. 151. — Maculis amphigenis, subcircularibus, brunneis; peritheciis innatis, lenticularibus, pertusis, atris, 120-150 μ. diam.; sporulis bacillaribus, curvulis, utrinque obtusiusculis, 40-50 = 2,5-3, spurie 3-5-septato-guttulatis, hyalinis, 6399

Hab. in foliis Acanthi mollis, Millis in Sardinia (Magnus)

— *Septoria Acanthi* Thum. sec. descriptionem vere diversa videtur.

175. **Septoria Physostegiæ** Ell. et Ev. Journ. Myc. 1889, p. 150. — 6400
Maculis amphigenis, minutis, 1 mm. diam., sordide albis, purpureo-limitatis, subinde pluribus minutis albis intra brunneam sitis; perithecciis.....; sporulis filiformibus, subrectis, 20-27 = 1-1,2.

Hab. in foliis Physostegiæ virginianæ, Racine Wisc. Amer. bor. (Davis). — A *Sept. Brunellæ* sat diversa.

176. **Septoria Vincæ** Desm. X Not. p. 6 (1843). — Maculis epiphyllis, suborbiculatis vel semiorbiculatis, eburneis, ambitu lato nigro; perithecciis minutis, prominulis, tectis, poro amplo pertusis; sporulis linearibus, tenuissimis, 8-10-guttulatis, 28-30 μ. longis. 6401

Hab. in foliis Vincæ minoris in Gallia bor.

177. **Septoria Holubyi** Bäuml. Crypt. Presb. p. 20. — Maculis orbicularibus arescendo candicantibus, nigro-marginatis; peritheciis sparsis, 150 μ. diam., membranaceis, contextu parenchymatico fuligineo, ostiolo minuto pertusis; sporulis filiformibus, rectis vel flexuosis, hyalinis, 40-50 = 1,2. 6402

Hab. in foliis Vincæ minoris pr. Pressburg Hungariæ. — « Verisimiliter a *S. Vincæ*, jam ante in Sylloge omissa, non satis diversa ».

178. **Septoria asclepiadicola** E. et E. Journ. Myc. 1888, pag. 44. — 6403
Maculis amphigenis, parvis, 1-2 mm. lat., rotundis, sordide albis, zonis duabus cinctis, interiore atra, angusta, elevata, exteriore purpurascente, sæpe 3-4-gregariis; sporulis lineari-fusoideis, guttatis, hyalinis, 25-50 = 2-2,5, utrinque sæpius acutis, sed uno apice plerumque subcrassiore.

Hab. in foliis Asclepiadis incarnatæ, Power's lake, Wisconsin Amer. bor. (Doct. J. J. Davis).

179. **Septoria Aristolochiæ** Sacc. Syll. III, p. 558 — var. **maculicola** 6404
Brun. Misc. mycol. p. 20. — Maculis subrotundis vel subangulosis, albidis, brunneo-limbatis; peritheciis numerosis, epiphyllis, lenticularibus, exiguis, nigris, perforatis; sporulis bacillaribus, rectis curvulisve, continuis, 18-20 = 1,5.

Hab. in foliis Aristolochiæ Clematitis, Saintes Galliæ.

180. **Septoria media** Sacc. et Brun. Champ. Saint. p. 339. — Maculis subrotundis, subinde confluentibus, brunneis, centro demum albicantibus, margine atro-sanguineo; peritheciis parcis, punctiformibus; sporulis filiformibus, flexuosis, granulosis, hyalinis, 50-55 = 1. 6405

Hab. in foliis Euphorbiæ palustris, Saintes Galliæ. — A *Sept. Kalchbrenneri* maculæ colore diversa.

181. **Septoria Rumicum** Sacc. et Paol. Myc. Sibir. p. 23, fig. 26. — 6406
— Maculis subcircularibus, amphigenis, alutaceis, zona atro-rubra in pagina superiore distinctiore cinctis; peritheciis hypophyllis, parcis, lenticularibus, $^1/_{10}$–$^1/_8$ mm. diam., minute pertusis, nigricantibus; sporulis bacillaribus, curvulis, 50-68 ≃ 3, utrinque obtusiusculis, minute parce guttulatis, hyalinis.

Hab. in foliis Rumicis Acetosæ in pratis pr. Caratus Sibiriæ (Martianoff). — A *Sept. polygonina* differt peritheciis hypophyllis, sporulis conspicue majoribus.

182. **Septoria Rumicis** Trail Fungi Hard. p. 494. — Maculis subcir 6407
cularibus, 4-6 mm. lat., pallide rufis, saturatius, anguste marginatiis; peritheciis epiphyllis, lenticularibus, poro centrali apertis, tenuibus, pallide brunneis, 90-100 μ. diam.; sporulis cylindraceis, curvulis, utrinque obtusis, 24-32 ≃ 2,5, hyalinis, 1-2-septatis.

Hab. in foliis Rumicis Acetosæ pr. Eide Norvegiæ.

183. **Septoria Westendorpii** Wint. Hedw. 1887, p. 26, *Phyllosticta* 6408
Chenopodii West. V, Not. n. 56, non *Sept. Chenopodii* West. cfr. Syll. III, p. 55 et 556. — Maculis irregularibus angulosis, sparsis vel confluentibus, 5 mm. diam., brunneo-pallidis, atro-brunneo-limbatis; peritheciis epiphyllis perexiguis, nigris, sparsis, ostiolo poriformi; sporulis e fusoideo cylindraceis, 15–20 ≃ 7, hyalinis, utrinque rotundatis, hyalinis.

Hab. in foliis Chenopodii viridis, C. urbici, C. albi in Belgio et Ohio Amer. bor. — Verisimiliter *Sept. Atriplicis*, *S. Chenopodii* et *S. Westendorpii* sunt meræ formæ unius speciei.

184. **Septoria polygonicola** (Lasch) Sacc. in Bull. Soc. Myc. V, p. 121, 6409
Depazea polygonicola Lasch in Kl. n. 566. — Maculis sparsis, inæqualiter orbiculatis, pallide ochraceis, limbo discolori carentibus; peritheciis punctiformibus sæpius epiphyllis; sporulis filiformibus, subcontinuis, rectiusculis, 40-50 ≃ 1, hyalinis.

Hab. in foliis Polygoni orientalis in Germania (Lasch, Kretzschmar). — A *Sept. Polygonorum* et *S. polygonina* differt maculis haud sanguineo-limbatis, et a prima specie etiam sporulis duplo longioribus.

185. **Septoria lupulina** E. et K. Journ. Myc. 1888, p. 27. — Maculis 6410
pallide flavescentibus, subangulosis, venulis folii limitatis, 2-4 mm. diam., subconfluentibus; peritheciis sparsis, innatis, in epiphyllo perspicuis, atro-plumbeis, sublenticularibus, 150 μ. diam.; contextu

grosse parenchymatico; sporulis 35-45 = 2-2,5, incurvis, uno apice subcrassiore, obtusis.

Hab. in foliis Humuli Lupuli, Cloud, Ks. Amer. bor. (M. A. CARLETON).

186. **Septoria cannabina** Peck 35 Rep. St. Mus. Bot. 1884, p. 137. 6411
— Maculis suborbicularibus, parvis, cinereis, sæpe margine rufo-brunneo cinctis; peritheciis minutis, numerosis, epiphyllis, centrum maculæ occupantibus, nigrescentibus; sporulis filiformibus, curvis, 20-30, hyalinis.

Hab. in foliis vivis Cannabis sativæ, Cold Spring Americæ borealis.

187. **Septoria tenuissima** Wint. in Journ. of Myc. 1885, pag. 122. 6412
— Maculis minutis, rotundato-angulatis, $^1/_2$–$1^1/_2$ mm. latis, arescendo candidis, linea elevata, fusco-atra circumdatis, zona indeterminata, viridi-fusca cinctis; peritheciis sparsis, plerumque epiphyllis, punctiformibus, globosis, atris, poro pertusis, 60-70 μ. diam.; sporulis tenuissime filiformibus, non distincte septatis, sæpe flexuosis, hyalinis, 20-28 μ. longis.

Hab. ad Bœhmeriæ cylindricæ, Missouri Amer. bor.

188. **Septoria Boërhaviæ** Pat. in Rev. Myc. 1886, p. 84. — Peri- 6413
theciis minutis, rotundatis, macula pallida, rufo-brunneo-limitata insidentibus, numerosis; sporulis linearibus, obtusis, curvatis, irregularibus, hyalinis vel viridulis, subinde 2-3-septatis, 41-51 = 3-5.

Hab. in foliis Boërhaviæ verticillatæ in Abyssinia.

III. *In Monocotyledoneis.*

189. **Septoria cocoina** E. et E. Journ. Myc. 1887, p. 85. — Macu- 6414
lis amphigenis, latis, 1-2 cm. diam., albis, atro-limbatis; peritheciis epiphyllis, sparsis, lenticularibus, 150-200 μ diam.; sporulis clavato-vermicularibus, continuis, hyalinis, flexuoso-curvis, 8-16 = 1,5-2.

Hab. in foliis Cocoës plumosæ cultæ, Columbia Mo. Amer. bor. (GALLOWAY).

190. **Septoria Palmarum** Sacc. Fung. Rom. n. 59, f. 10. — Peritheciis 6415
amphigenis hinc inde gregariis, maculas peculiares nullas efficientibus, punctiformibus, atris, velatis, 80 μ. diam.; sporulis bacillaribus, curvulis, 15-18 = 1, hyalinis; basidiis indistinctis.

Hab. in foliis aridis Lataniæ Borbonicæ in Horto botanico, Roma.

191. **Septoria Tritomæ** Pat. Bull. Soc. Myc. 1891, p. 179. — Macu- 6416

lis cinereis longitrorsum elongatis; peritheciis atris, punctiformibus, ostiolatis, 100-130 μ. diam.; sporulis cylindraceis utrinque acutatis, rectis curvulisve, continuis, 4-5-guttulatis, 13-16 × 1, hyalinis.

Hab. in caule Tritomæ, Quito Amer. merid. (LAGERHEIM). — Perithecia mycelio ramoso brunneo, septato connexa.

192. **Septoria Callæ** (Lasch) Sacc. Syll. III, pag. 569 (absque diagnosi) et in Bull. Soc. myc. V, p. 122, *Sphæria* (Depazea) *Callæ* Lasch in Kl. n. 368. — Maculis plerumque epiphyllis, minutis ex olivaceo pallidis; peritheciis paucis, punctiformibus, confertis, 100 μ. diam., anguste pertusis, sub microsc. fuligineo-rufis; sporulis bacillaribus curvulis, 20-25 × 1,5-2, continuis, hyalinis. 6417

Hab. in foliis languidis Callæ palustris, Driesen Germaniæ.

193. **Septoria Iridis** C. Mass. Contr. myc. Ver. p. 96, t. II, f. 16. — Peritheciis subglobosis, hypodermeis, 160-180 μ. amphigenis, in maculis parvis, orbiculatis oblongisve, griseo-expallentibus, zona fuscescenti limbatis, dense aggregatis; sporulis elongato-subfusiformibus, utrinque obtusiusculis, chlorinis, in medio 1-septatis, 20-32 × 4-5. 6418

Hab. in foliis languidis Iridis germanicæ, Calavena pr. Tregnago Verona.

194. **Septoria Narcissi** Passer. Diagn F. N. IV, n. 119. — Peritheciis sparsis epidermidi adnatis, punctiformibus fuscis, membranaceis; sporulis cylindricis, utrinque obtusis, continuis, curvulis, 17,5-20 × 2,5-3, basidiis tenuibus longiusculis fultis. 6419

Hab. in apice exsiccato foliorum vivorum Narcissi speciei cultæ, Parma Ital. bor.

195. **Septoria alliicola** Bäumler in Hedw. 1885, p. 75. — Peritheciis numerosis, gregariis, sub epidermide nidulantibus, globosis, ostiolo simplici, pertuso erumpentibus, atris, 200-250 μ. diam.; sporulis elongato-cylindraceis, flexuosis, fere hyalinis, plerumque uniseptatis, 30-50 × 3-5. 6420

Hab. in scapis Allii flavi, Pressburg Hungariæ.

196. **Septoria Ophiopogonis** Pass. Erb. critt. it. II, n. 1291. — Peritheciis punctiformibus, depressis, atris, medio pertusis; sporulis cylindrico-fusiformibus, integris, curvulis, hyalinis, 25 × 1,5-2. 6421

Hab. in apice exsiccato foliorum Ophiopogonis japonici in Horto botanico, Parma Ital. bor. — *Leptosphæriæ Ophiopogonis* spermogonium probabiliter sistit.

197. **Septoria transversalis** Sacc. Fung. Rom. n. 57, f. 12. — Perithe- 6422

ciis hinc inde dense gregariis maculasque oblongas, atras, in foliis transverse positas efficientibus, amphigenis, globulosis, innato-erumpentibus, punctiformibus, 70–80 μ. diam., apice late pertusis; sporulis bacillaribus, curvulis, utrinque obtusulis, 11-14 × 1,5, hyalinis.

Hab. in foliis languidis Aspidistræ elatioris in Horto botanico, Roma.

198. **Septoria Aracearum** Sacc. Fung. Rom. n. 58, fig. 11. — Maculis 6423
amphigenis, rimosis, amplis, pallidis, margine elevato fuscello cinctis; peritheciis epiphyllis, punctiformibus, gregariis, 180 μ. diam., tectis, poro pertusis; sporulis filiformibus, hamatis, 26–30 × 1, hyalinis; basidiis paliformibus, triplo brevioribus.

Hab. in foliis languidis Philodendri pertusi, Villa Patrizi, Roma.

199. **Septoria spiculosa** E. et Holw. Journ. myc. 1887, pag. 76. — 6424
Maculis amplis, brunneis, irregularibus, margine pallidiore; peritheciis subglobosis, innatis, prominulis, subsparsis, brunneis, 90-100. μ. diam.; sporulis linearibus, rectis, continuis, hyalinis, 30-36 × 1-1,5.

Hab. in foliis Symplocarpi fœtidi, Wisconsin Amer. bor.

200. **Septoria crassispora** Wint. Exot. Pilze IV, p. 12. — Perithe- 6425
ciis subgregariis v. sparsis, immersis, globulosis, punctiformibus, poro pertusis, membranaceis, atris, demum vertice prominentibus, 60–66 μ. diam.; sporulis numerosis, cylindraceo-fusoideis, utrinque rotundatis, plerumque curvatis flexuosisve, dilutissime olivaceis, 5-7-septatis, haud constrictis, 40-54 × 3,5.

Hab. in foliis culmisque Junci scheuchzeriodidis, Cap Horn (Hariot).

201. **Septoria Eriophori** Oudem. Cont. à la Flora myc. de Nowaja 6426
Semlja p. 10, t. I, f. 5. — Peritheciis foliicolis, minutissimis, 70 μ. tenerrimis, fuscis, epidermide tectis, ostiolo denique circumcirca aperturam profundius tincto, prominentibus; sporulis numerosissimis, hyalinis, bacilliformibus, undulato-curvatis, apice acutis, basi truncatis, 70–75 × 3.

Hab. in foliis Eriophori angustifolii, Nowaja Semlja.

202. **Septoria minuta** Schroet. Pilze Labrad. p. 19. — Peritheciis mi- 6427
nutissimis, 40-60 μ. diam., atris, in maculas irregulares nebulosas pluribus congregatis; sporulis fusoideis, curvis, utrinque acutis, 17-20 × 2-2,5, hyalinis.

Hab. in foliis Luzulæ spicatæ, Lichtenfels Groenlandiæ. —

Forma **Elynæ Bellardi** Schroet. loc. cit.: peritheciis minutissimis, vulgo in lineas nigras latas confluentibus; sporulis 16–20 = 2,5–3, falcatis. Prope Holstenborg Groenlandiæ.

203. **Septoria Luzulæ** Schroet. Hedw. 1890, p. 63. — Peritheciis 6428
sparsis, maculis, nullis distinctis insidentibus, 0,2 mm. diam., atris, ostiolo acutiusculo prominulo; sporulis filiformibus, 60–80 = 2–3, utrinque obtusis, curvis, hyalinis.

Hab. in foliis Luzulæ Forsteri, Riparj pr. Belgrad Serbiæ (Wojnowic).

204. **Septoria Lepidospermatis** Cooke et Mass. in Grev. XIX, p. 91. — 6429
Amphigena; maculis griseolis, dein albidis, oblongis, margine lato, brunneo præditis; peritheciis parvis, semiimmersis, nigris; sporulis linearibus, flexuosis, hyalinis, 30 = 1.

Hab. in foliis Lepidospermatis, Victoria Australiæ (Martin).

205. **Septoria nigrificans** Pat. in Rev. Myc. 1886, p. 84. — Macu- 6430
lis brunneis, epiphyllis, ovatis, elongatis, in pagina inferiore foliorum nitide nigro-limitatis; sporulis hyalinis, rectis, filiformibus, non septatis nec guttuligeris, 24–30 μ. longis.

Hab. in foliis emortuis Caricis, Thibet Asiæ (Ab. David).

206. **Septoria papillata** Karst. Symb. XXI, p. 164. — Peritheciis laxe 6431
gregariis, papilla per epidermidem erumpente; sporulis elongatis, continuis, rectis, 11–13 = 3.

Hab. in foliis putrescentibus Caricis vesicariæ ad Mustiala Fenniæ. — Ad *Phomam* nutat.

207. **Septoria carnea** E. et Ev. Proc. Acad. Phil. 1891, p. 80. — 6432
Peritheciis hypophyllis, incarnatis, siccis collapsis, inter nervos folii seriatis et cæspitulos elongatos 1–3 cm. long., 2–4 mm. lat. formantibus; sporulis fusoideis, subcurvis, guttulatis, utrinque acutis, fasciculatis, 20–30 = 1,5, hyalinis.

Hab. in foliis subemortuis Caricis, London, Canada Amer. bor. (F. Dearness). — «An Nectrioidearum genus novum?».

208. **Septoria dolichospora** Trail Suppl. Myc. Scot. n. 3047. — Peri- 6433
theciis sparsis, subcutaneis, ovato-lenticularibus, 280 = 240, poro prominente margine nigricante apertis, pallide brunneis; sporulis longissimis, filiformi-fusoideis, 120–130 = 2–2,5, flexuosis vel valde curvis, ex hyalino flavidis, pluriguttulatis, v. 9–12-septulatis.

Hab. in calamis emortuis Scirpi lacustris pr. Aberdeen Scotiæ.

200. **Septoria Phalaridis** Cocc. et Mor. Enum. Fung. della provin- 6434
cia di Bologna, Cent. III, pag. 24, t. II, f. 22–25. — Peritheciis

erumpentibus, membranaceis, brunneis, globulosis, 96-105 μ. diam., in maculis pallide luteis foliorum vaginarumque insidentibus; sporulis hyalinis, filiformibus, rectis vel leviter undulatis, prope medium obscure uniseptatis, 20-25 ≃ 1¼.

Hab. in foliis et vaginis Phalaridis brachystachydis prope Monte Paderno, Bologna Ital. med.

210. **Septoria macrosperma** Speg. F. Fueg. n. 417. — Peritheciis 6435
dense seriatis immersis, epidermide infuscata tectis, globulosis 100-110 μ. diam., atris, coriaceo-membranaceis, ostiolo papillulato coronatis, contextu indistincto fuligineo; sporulis filiformi-subclavulatis apice obtusiusculis, inferne acutiusculis, 70-85 ≃ 1-2, 7-9-septatis, non constrictis, hyalinis.

Hab. ad folia emortua Poæ Forsteri in scopulosis prope Staten island Fuegiæ.

211. **Septoria Triseti** Speg. F. Fueg. n. 421. — Maculis parvulis sub- 6436
linearibus tumidulis dilute cinerescentibus indeterminatis; peritheciis dense aggregatis globulosis 70-80 μ. diam. subseriatis atris tenui-membranaceis ostiolato-pertusis, contextu parenchymatico olivascente; sporulis filiformibus utrinque acutiusculis 20-30 ≃ 1-1,3, continuis flexuosulis hyalinis.

Hab. ad folia languida Triseti phleoidis et Agrostidis magellanicæ in Staten island Fuegiæ.

212. **Septoria nebulosa** Rostr. Fung. Groenl. p. 575. — Peritheciis 6437
minutissimis, dense gregariis, maculas nebulosas, longas efficientibus; sporulis fusoideo-elongatis, arcuatis, continuis, guttulatis, 13-15 ≃ 2-3.

Hab. in culmis et foliis siccis Calamagrostidis, Triseti, Poæ in Groenlandiæ plur. locis (Warming, Holm, Hansen).

213. **Septoria Calamagrostidis** (Lib.) Sacc. F. Ardenn. n. 181, *Asco-* 6438
chyta Calamagrostidis Lib. Cript. II, n. 157, (1832). — Epiphylla; maculis linearibus, albis; peritheciis nigris, ore orbiculari apertis; cirris albo-flavescentibus; sporulis filiformibus rectis curvulisve, 45-55 ≃ 1-1,5, hyalinis.

Hab. in foliis Calamagrostidis silvaticæ in Arduennis. — Peraffinis *Septoriæ graminum* Desm.

214. **Septoria curva** Karst. Symb. XXI, p. 103. — Peritheciis sub- 6439
sparsis, innatis, sphæroideo- vel ellipsoideo-depressis, demum poro pertusis, atris, punctiformibus; sporulis fusoideo-oblongatis, utrinque attenuatis, curvis vel falciformibus, continuis, hyalinis, 14-20 ≃ 3,5-4,5.

Hab. in culmis aridis Phragmitis communis pr. Mustiala Fenniæ. — Affinis *S. oxysporæ.*

215. **Septoria Secalis** Prill. et Delacr. in Bull. Soc. myc. 1889, p. 125. — Maculis obsoletis; peritheciis diu immersis, 90 μ. diam.; sporulis bacillaribus utrinque obtusiusculis rectis v. vix curvis, continuis, hyalinis, multiguttulatis, 40-43 ≃ 2,5-3. 6410

Hab. in foliis vaginisque jam flavescentibus Secalis Cerealis, Boissy-sous-St.-Yon, Seine et Oise Galliæ. — Affinis *Sept. Passerinii*, sed sporulæ crassiores.

216. **Septoria Lolii** (Cast.) Sacc. *Rhabdospora* Cast. Cat. pl. Mars. II, p. 75. — Maculis minutis, subrotundis, ovalibus, nigricantibus; peritheciis numerosis, atris, subcutaneis; cirris luteo-fuscis; sporulis acicularibus, flexuosis, hyalinis, continuis, 30 × 4. 6411

Hab. in glumis Lolii perennis pr. Marseille Galliæ.

217. **Septoria phyllachoroides** Passer. Diagn. F. N. IV, n. 120. — Peritheciis in maculis atris phyllachoroideis immersis, vix perspicuis; sporulis cylindraceis rectis vel curvulis, utrinque rotundatis, obscure triseptatis, hyalinis, 25-35 × 2,5-3. 6412

Hab. in foliis languidis v. siccis Agropyri repentis, Vigheffio prope Parma.

218. **Septoria Briosiana** Mor. Giorn. Bot. It. 1885, p. 39. — Peritheciis epiphyllis, in maculis parvis, nigrescentibus, oblongis irregularibusque insidentibus, globuloso-depressis, erumpentibus, 84-96 μ. diam.; sporulis tenuissimis, bacillaribus, plus vel minus incurvatis et undulatis, continuis, incoloribus, hyalinis, 9-11 ≃ ½-¾; basidiis acuminatis, non guttulatis, hyalinis, 32-40 ≃ 1½-2. 6413

Hab. in foliis Tritici sativi in Italia bor.

219. **Septoria Arechavaletæ** Wint. Exot. Pilze IV, p. 9. — Peritheciis sine macula in foliorum pagina superiore sparsis subgregariisve, totis immersis, globosis, demum vertice erumpentibus et late apertis, oculo nudo haud, oculo armato vix visibilibus, membranaceis, fusco-atris, 100 μ. latis; sporulis numerosissimis, filiformibus, curvatis flexuosisque, utrinque rotundatis, indistincte pluriseptatis, hyalinis, 60-80 × 1½-2, in globulos seu cirros pallidos ceraceos ejectis. 6414

Hab. ad folia languida Panici carthaginensis, S. W. Montevideo Uruguay.

220. **Septoria? bambusella** Speg. Guar. I, p. 149. — Maculis amphigenis, ellipticis, subindefinitis, 1-2 × 0,5-1 mm., ferrugineis; peritheciis epiphyllis superficialibus, globulosis, 120-140 μ. diam. sub- 6415

verruculosis, glabris, atris, subastomis, 2–3-aggregatis, crassiuscule membranaceo-coriacellis, pellucidis, contextu olivaceo, grosse parenchymatico; sporulis bacillari-fusoideis, apice acutatis sæpeque curvulis, deorsum subtruncato-attenuatis, 30-60 ≃ 2-3, hyalinis, 3-5-septatis.

Hab. in foliis vivis Chusqueæ tenuiglumis pr. Villa Rica Brasiliæ. Ob perithecia superficialia forte ad *Collonema* vergit.

IV. *In Acotyledoneis.*

221. **Septoria thecicola** Berk. et Br. — Syll. III, p. 577 — var. **scapicola** Karst. Symb. Myc. Fenn. XXIII, p. 11. — Peritheciis sparsis superficialibus, multiformibus, rotundatis, ovalibus vel oblongatis, rugosis, poro lato orbiculari vel ovali dehiscentibus, nigricantibus, udis fuligineo-atris, intus fuligneo-pallidis basi vulgo macula angusta fuliginea cinctis, 100 μ. diam.; sporulis filiformibus, rectis, guttulatis, hyalinis, 18-24 ≃ 1-1,5. 6446

Hab. in pedunculis capsularum Polytrichi juniperini pr. Mustiala Fenniæ. — An Excipulacea?

222. **Septoria Pteridis** Peck 44 Rep. pag. 24. — Peritheciis hypophyllis, subconicis, nigris; sporulis filiformibus, longissimis, curvis vel flexuosis, continuis, 70-100 μ. long. 6447

Hab. in frondibus Pteridis aquilinæ, Sandlake Amer. bor.

223. **Septoria equisetaria** Karst. in Hedw. 1885, pag. 73. — Peritheciis subsparsis, innatis, subsphæroideis, poro pertusis, atris, membranaceis, contextu parenchymatico, fuligineo, minutissimis; sporulis bacillari- vel elongato-fusoideis, rectis vel curvatis, 3-septatis, hyalinis vel luteolo-hyalinis, 20-27 ≃ 4. 6448

Hab. in caulibus languidis Equiseti fluviatilis prope Mustiala Fenniæ.

RHABDOSPORA Mont. — Syll. III, p. 578.

A. *Eu-Rhabdospora.* Perithecia tecta, cauli-corticola.

I. *In Dicotyledoneis lignosis.*

1. **Rhabdospora scoparia** Sacc. et Br. Miscell. Myc. II, pag. 24. — Peritheciis gregariis, subcutaneo-erumpentibus, globulosis, obsolete et obtuse papillatis, 1/6 mm. diam., atro-nitidulis; sporulis cylindraceis, curvulis, utrinque rotundatis, nubilosis vel 1-guttulatis, hyalinis, 28-36 ≃ 6-7. 6449

Hab. in ramulis Sarothamni scoparii, Troyes Galliæ (Briard). — Affinis *Rhabd. cordobensi.*

2. **Rhabdospora Cocconii** Sacc., *Septoria Spartii* Cocc. et Mor. Enum. F. Bol. IV, p. 21, t. II, f. 7-9. — Peritheciis haud maculicolis, membranaceis, globulosis, papillatis, vix erumpentibus, inæqualiter sparsis, 90-98 μ. diam.; sporulis cylindrico-fusoideis, continuis, hyalinis, utrinque leniter tenuatis, 18-22 ≃ 4-6. 6450

Hab. in ramulis siccis Spartii juncei, Monte Donato agri Bononiensis.

3. **Rhabdospora Spartii** Pass. et Brun. Mat. Myc. Saint. pag. 28. — Peritheciis sparsis vel gregariis, interdum maculiformi-congestis, vix erumpentibus, elongato-globulosis, nigris; sporulis filiformibus, guttatis, 20-25 ≃ 1,5, hyalinis. 6451

Hab. in foliis Spartii juncei, Saintes Galliæ. — Differt a *Rh. phomatoidi* peritheciorum formâ.

4. **Rhabdospora sphæroides** Passer. Diagn. F. N. IV, n. 121 et Hedw. 1890, p. 160. — Peritheciis sphæroideis, erumpentibus, papillatis, atris; sporulis filiformibus, rectis v. arcuatis, continuis, hyalinis, 24-35 μ. long.; basidiis crassiusculis, circ. 20 μ. long. 6452

Hab. in ramis siccis Wistariæ sinensis in horto botanico parmensi Ital. bor.

5. **Rhabdospora Preussii** Sacc. Syll. III, p. 580. — Sec. cl. Oudem. Contr. Fl. Myc. Pays-bas p. 49, perithecia sunt globoso-applanata, nigra, solidiuscula, 0,3-0,5 mm. diam., sporulæ 25 ≃ 1,5, curvæ v. flexuosæ, eguttulatæ, hyalinæ. — Species nascitur quoque in cortice ramorum Cytisi Laburni, Rijswijk Nederlandiæ (Destrée).

6. **Rhabdospora Cydoniæ** Passer. Diagn. F. N. IV. n. 124. — Peritheciis sparsis, erumpentibus, depressis, brunneis; sporulis bacillaribus, rectis v. flexuosis, obscure uni-triseptatis, hyalinis, 20-27,5 ≃ 2,5, basidiis crassiusculis, subæquantibus fultis. 6453

Hab. in ramulis Cydoniæ vulgaris, sociâ *Diaporthe Cydoniæ*, Parma Ital. bor.

7. **Rhabdospora Rubi** Ell. Journ. Myc. 1887, p. 90. — Peritheciis nigris, subglobosis, innatis, erumpentibus, sparsis, 100-195 μ. diam.; sporulis hyalinis, linearibus, curvis, 3-4-septatis, 40-45 ≃ 2. 6454

Hab. in caulibus Rubi strigosi, Illinois Amer. bor.

8. **Rhabdospora ramealis** (Desm. et Rob.) Sacc. Syll. III, p. 580. — Var. **crassiuscula** Berl. Pug. F. Fior. p. 85. — Peritheciis sparsis, epidermide tectis, minutis, macula nulla v. obsoleta insidentibus, intus albidis; sporulis cylindraceis, plerumque rectis, pseudo-triseptatis, 20-22 ≃ 3, hyalinis. 6455

Hab. in sarmentis emortuis Rubi pr. Firenze Italiæ.

9. **Rhabdospora advena** Pass. Rev. Myc. 1889, pag. 146. — Maculis 6456
nullis; peritheciis sparsis, subcutaneis, promiscuis, ostiolo atro, acuto, erumpente donatis; sporulis bacilliformibus, rectis vel vix curvis, interdum levissime clavatis v. etiam subfusoideis, nubilosis, obscure pluriguttatis, hyalinis, 20–40 ≃ 3-4.

Hab. in ramulis vivis Camelliæ japonicæ, in frigidariis horti botanici Parma, Ital. bor.

10. **Rhabdospora Forsythiæ** Passer. Diagn. F. N. IV, n. 124. — Pe- 6457
ritheciis sparsis, cortici immersis, depressis, atris, vertice obtuso, vix emersis vel tandem nudatis; sporulis filiformibus, ut plurimum flexuosis, e strato minute cellulari oriundis, continuis, hyalinis, 35-40 ≃ 1,5.

Hab. in ramis siccis Forsythiæ viridissimæ in horto botanico parmensi Ital. bor.

11. **Rhabdospora Bouwardiæ** Passer. Diagn. F. N. IV, n. 123. — Pe- 6458
ritheciis sparsis, minutis, erumpentibus, globoso-conicis, atris; sporulis bacillaribus, rectis vel curvulis, continuis, hyalinis, 15–20 ≃ 1.

Hab. in ramis siccis Bouwardiæ versicoloris in horto botanico parmensi Ital. bor.

12. **Rhabdospora Fraxini** Pass. in Journ. hist. nat. Bord. 1885, p. 136, 6459
Brunaud Liste Sphærops. pag. 51. — Maculis stromaticis, nigris, elongatis, irregularibus; peritheciis punctiformibus, sparsis, nigris, duris, subglobulosis vel vix conoideis; sporulis parum curvatis, filiformibus, subinde uno apice parum clavatis, hyalinis, 40-50 ≃ 0,5-1.

Hab. in ramis emortuis Fraxini excelsioris, Saintes Galliæ.

13. **Rhabdospora Jasmini** Passer. Diagn. F. N. V, n. 48. — Perithe- 6460
ciis (spuriis?) globoso-depressis, tectis, in macula albida crebre sparsis, fuscis, puncto centrali; albido; sporulis cylindricis, arcuatis, rarius rectis, integris, hyalinis, intus nubilosis v. plurinucleolatis, 15–25 ≃ 2,5-3,5; basidiis filiformibus, brevioribus fultis.

Hab. in ramis gelu tactis Jasmini officinalis, in horto botanico parmensi Ital. bor.

14. **Rhabdospora tenuis** Passer. Diagn. F. N. IV, p. 125. — Perithe- 6461
ciis subgregariis vel crebre sparsis, cortici immersis vel, hoc consumpto, ligno insidentibus, per epidermidem vix fissam minute erumpentibus, parvulis, globosis, atris; sporulis filiformibus, tenuissimis, integris, hyalinis, rectis v. curvis aut flexuosis, 18–25 ≃ 0,7-1; basidiis tenuibus, longiusculis.

Hab. in ramo emortuo Fici Caricæ, Parma Ital. bor.

15. **Rhabdospora curvula** Berl. Add. Syll. n. 4681. — Peritheciis 6462
tectis, globoso-conoideis, dein erumpentibus, $^1/_4$-$^1/_3$ mm. diam., atris, sursum in ostiolum obtusum perforatum desinentibus; sporulis cylindraceis, sinuosis, curvis vel falcatis, 25-28 × 1-1,5; basidiis longitudine variis, ramosis, basi sensim incrassatulis, septatis, 25-30 × 1, basi 3 μ. crassis, ramis apice subinde et duas sporulas sustinentibus.

Hab. in ramis Mori albæ, Fiumicello Ital. bor.

16. **Rhabdospora pinea** Karst. — Syll. III, p. 585. — ***R. curva** Karst. 6463
Symb. XX, p. 88. — Sporulis fusoideo-bacillaribus, curvis, solito simplicibus et eguttatis, hyalinis, 30-35 × 3-4.

Hab. in cortice Abietis excelsæ emortuo, Mustiala Fenniæ. — Affinis *Rh. pityophilæ.*

17. **Rhabdospora rudis** Karst. Rev. Myc. 1889. — Peritheciis mox 6464
superficialibus, corticolis, numerosis, aggregatis vel confertis, sæpissime in acervulos aggregatis, forma valde variantibus, rotundatis, oblongatis, admodum inæqualibus et difformibus, subastomis, atris, 0,1-0,2 mm. diam.; sporulis fusoideo-bacillaribus, curvulis v. flexuosis, guttulatis v. pauciseptatis, hyalinis, 55-60 × 3.

Hab. supra corticem arborum frondosarum in Minas Geraes, sitio (Edw. Wainio).

18. **Rhabdospora uncinata** Pass. in Martelli Flor. bogosensis p. 149. 6465
— Peritheciis sparsis, sphæroideis, atris, subtectis, dein nudatis; sporulis tenuissimis, filiformibus, continuis, hami ad instar curvatis, basidiis longiusculis fultis.

Hab. in corticibus, Keren Abyssiniæ.

II. *In Dicotyledoneis herbaceis.*

19. **Rhabdospora Matthiolæ** Melbr. et Brun. Suppl. Sphæroid. p. 5. — 6466
Peritheciis globoso-lenticularibus, primum epidermide subdecolorata tectis, minutissimis, dense gregariis, nigris; sporulis cylindraceis, utrinque obtusis, 1-septatis, ad septum non constrictis, 16-25 × 2-3.

Hab. in siliquis exsiccatis Matthiolæ incanæ, Pessines pr. Saintes Galliæ. — Forma **Matthiolæ sinuatæ** Cfr. Brun. Fragm. Myc. II, pag. 10: sporulis 14-15 × 3. In ejusdem siliquis, Fouras Galliæ.

20. **Rhabdospora siliquarum** Fautrey Rev. Myc. 1890, p. 67. — Pe- 6467
ritheciis perexiguis, innatis, poro pertusis; sporulis in cirrum al-

bidum tenuem ejectis, linearibus, rectis v. leviter curvis, utrinque attenuatis, 1-septatis, 18-22 ≈ 2.

Hab. in siliquis exsiccatis Cheiranthi Cheiri, Noidan Côte-d'Or Galliæ.

21. **Rhabdospora Drabæ** (Fuck.) Berl. et Vogl. Add. Syll. n. 4543, 6468
Phoma Drabæ Fuckel in Heuglin Reisen Nordpol. vol. III et Oudemans Contr. Flor. Myc. Now. Sem. p. 5, t. III, fig. 7. — Peritheciis sparsis, sub caulis epidermide nidulantibus, demum liberis, minutis, depresse-globosis, vertice umbonatis, pallidioribus, nigris; sporulis angustissime fusiformibus, curvatis, continuis, hyalinis, 22 ≈ 2.

Hab. in caulibus exsiccatis Drabæ in insula Nowaja Semlja. 6469

22. **Rhabdospora cercosperma** (Rost.) Sacc., *Septoria cercosperma* Rostr. Fung. Groenl. p. 571. — Videtur vix differre a *Rh. caudata* (Karst.) Sacc. sporulis 2-3-septatis.

Hab. in caulibus Viscariæ, Cardamines, Drabæ, Ranunculi, Coptidis, Archangelicæ, Campanulæ, Hieracii, Artemisiæ, Antennariæ, Bartsiæ, Oxyriæ in Groenlandiæ pluribus locis.

23. **Rhabdospora pleosporoides** Sacc. Syll. III, p. 588. — ***Scrophulariæ** Karst. Symb. Myc. Fenn. XXVII, p. 34. — Peritheciis cladogenis, sparsis, epidermide velatis, sphæroideo- v. oblongato-depressis, atris, subinde maculis rufescentibus insidentibus, 0,3 mm. lat., ostiolo papillato, brevi; sporulis filiformibus, rectis, continuis, obsolete guttulatis, hyalinis, 50-67 ≈ 1,5. 6470

Hab. in caulibus Scrophulariæ nodosæ emortuis pr. Mustiala Fenniæ. — Var. **Cirsii** Karst. in Hedw. 1884, p. 4: peritheciis basi filamentis brevibus obsitis; sporulis filiformibus, apicibus acutis, obsolete guttulatis, 35-52 ≈ 1-2. In caule Cirsii in Fennia. — ***R. longior** Karst. Symb. Myc. Fenn. XXV, p. 23: maculis nullis; peritheciis sparsis cladogenis, mox nudis rotundatis vel oblongatis, applanatis v. sæpius depressis, ostiolo papillato, circiter 0,4 mm. lat.; sporulis filiformibus, rectis, continuis, multiguttulatis, hyalinis, 50-70 μ. long. In caulibus aridis Cerefolii silvestris pr. Mustiala Fenniæ.

24. **Rhabdospora Poterii** Passer. Diagn. F. N. IV, p. 13. — Peritheciis minutis, sparsis, tectis, atris, ostiolo papillari, erumpente; sporulis bacillaribus continuis, rectis v. arcuatis, hyalinis; basidiis longiusculis, hyalinis, 20-30 ≈ 1,5-2. 6471

Hab. in ramis Poterii Sanguisorbæ, Parma Ital. bor.

25. **Rhabdospora Saponariæ** Bres. et Sacc. in Berl. et Bres. Micr. Trid. pag. 76. — Peritheciis subsparsis, minutis, nigris; sporulis bacillaribus, utrinque rotundatis, sæpe leniter curvulis, 6-guttulatis, 12-15 ≈ 1,5, hyalinis; basidiis teretibus, subflexuosis, sæpe farctis, paullo brevioribus suffultis. 6472

Hab. in caulibus Saponariæ officinalis, Val di Sole pr. Trento.

26. **Rhabdospora microspora** Har. et Karst. Rev. Myc. 1890. — Peritheciis in maculis elongatis, parvis, griseo-atris, gregatim sparsis, erumpentibus, sphæroideis, subastomis, atris, 50-60 μ. diam.; membranaceis tenuissimis, contextu parenchymatico; sporulis filiformibus, rectis vel curvulis vel subflexuosis, continuis, hyalinis, 10-16 ≈ 0,5-1. 6473

Hab. in caulibus siccis Althææ roseæ in Gallia (P. Hariot).

27. **Rhabdospora Campanulæ** Fautr. Rev. Myc. 1892, p. 9. — Peritheciis sparsis, subcutaneis, ostiolo erumpente; sporulis filiformibus, 40-60 ≈ 2, guttulatis. 6474

Hab. in caulibus Campanulæ Trachelii, Noidan, Côte-d'Or Galliæ.

28. **Rhabdospora Betonicæ** Sacc. et Br. in Rev. Myc. 1885. — Peritheciis sparsis, plus v. minus approximatis, subepidermicis, ostiolo prominente, $^1/_7$-$^1/_6$ mm. diam.; sporulis cylindraceo-filiformibus, obtusiusculis, rectis, raro flexuosis, hyalinis, simplicibus v. obscure guttulatis, 20-24 ≈ 1-1,5. 6475

Hab. in caulibus siccis Betonicæ officinalis pr. Troyes Galliæ.

29. **Rhabdospora Thalictri** Har. et Karst. Rev. Myc. 1890. — Peritheciis gregatim sparsis, subinde confertis, subconfluentibus, erumpentibus, epidermide demum fissa tectis, rotundatis, ellipsoideis v. oblongatis, plus minus applanatis, poro orbiculari vel sæpius oblongato pertusis, atris, hyphis parcis, repentibus, articulatis, ramosis, fuligineis, basi cinctis, 60-100 μ. diam.; sporulis filiformibus curvulis, guttulatis, 40-65 ≈ 0,5-1. 6476

Hab. ad caules emortuos Thalictri minoris in Arvernia Galliæ (P. Hariot).

30. **Rhabdospora disseminata** Sacc. et Paol. in Sacc. Myc. Sib. p. 24, f. 25. — Longe lateque crebriuscule disseminata; peritheciis punctiformibus, globoso-depressis, atris, epidermide velatis, $^1/_{10}$ mm. lat., demum subinde umbilicatis; sporulis exiguis, bacillaribus, 15-20 ≈ 2, rectis, eguttulatis, hyalinis. 6477

Hab. in caulibus Thalictri sp. in silvis pr. flum. Ubei Sibiriæ (MARTIANOFF).

31. **Rhabdospora maculans** Sacc. et Berl. in Sacc. Myc. Sib. p. 23, f. 22. — Peritheciis minutis, 150 μ. diam., membranaceis, epidermide tectis, macula fusca insidentibus; sporulis bacillaribus, numerosissimis, 18-22 ≃ 1, hyalinis. 6478

Hab. in ramis exsiccatis Axyridis amaranthoidis in ruderatis pr. pag. Gladen Sibiriæ (MARTIANOFF).

32. **Rhabdospora Rutæ** Fautr. et Roum. Rev. Myc. 1801, p. 80. — Peritheciis minutis, confertis, numerosis, late apertis; sporulis filiformibus, hyalinis, continuis, 14-25 ≃ 2-2,5. 6479

Hab. in caule Rutæ graveolentis cultæ, Noidan, Côte-d'Or Galliæ.

33. **Rhabdospora Rhinanthi** (Fr.) Oud. Contr. Myc. Pays-bas p. 51, *Zythia* Fr. — Syll. III, p. 615. — Sec. cl. Oudem l. c., perithecia omnino nigra et membranacea, atque sporulæ 12-14 ≃ 2,5, hyalinæ, continuæ, 3-5-guttulatæ. Nascitur quoque in caule et capsulis Rhinanthi minoris, Apeldoorn Nederlandiæ.

34. **Rhabdospora Kellermani** E. et M. Journ. Myc. 1887, p. 90. — Maculis obsoletis; peritheciis nigris, innatis, lenticularibus, sparsis, 126-150 μ. diam.; sporulis filiformibus, hyalinis, subrectis, 45 ≃ 1,5. 6480

Hab. in caulibus et foliis Scrophulariæ nodosæ et Mimuli ringentis, Ohio Amer. bor.

35. **Rhabdospora verbenicola** Sacc. Syll. III, p. 590. — Var. **major** Brunaud Liste Sphærops. p. 52. — Sporulis 40-50 ≃ 1,5. In caulibus emortuis Verbenæ officinalis, Saintes Galliæ.

36. **Rhabdospora Succisæ** Karst. et Fautr. Rev. Myc. 1891, p. 9. — Peritheciis confertis, majusculis, nigris, subcutaneis, papilla epidermidem perforante; sporulis filiformibus, rectis v. varie curvis, uno apice plerumque acutioribus, 40-65 ≃ 1,5. 6481

Hab. in caule Scabiosæ Succisæ, Forêt de Clamercy Galliæ. — Videtur eadem ac sequens.

37. **Rhabdospora Scabiosæ** Fautrey Rev. Myc. 1890, n. 47. — Peritheciis sparsis, subcutaneis, subsphæroideis, basi hyphis innatis, fuligineis, circumdatis, atris, contextu parenchymatico, fuligineo, ostiolo papillato, epidermidem perforante, 0,2 mm. diam.; sporulis filiformibus, rectis vel flexuosis, guttulatis, hyalinis, 50-75 ≃ 1,5-2. 6482

Hab. ad caules exsiccatos Scabiosæ Succisæ, Clamercy Galliæ (FAUTREY). — *Rh. pleosporoidi* proxima.

38. **Rhabdospora dipsacea** Sacc. Bomm. et Rouss. Contr. Myc. Belg. 6483

III, p. 21. — Peritheciis punctiformibus, $^1/_5$-$^1/_4$ mm. diam., epidermide tectis, mammillatis, nigris, ostiolo brevi, recte epidermidem perforante donatis, laxe gregariis; sporulis hyalinis, cylindraceis, curvatis, pluriguttulatis, medio pseudoseptatis, 30-32 ≃ 3-4.

Hab. in caulibus emortuis Dipsaci silvestris, Yvoir Belgii.

39. **Rhabdospora Polemoniorum** Sacc. et Paol. in Sacc. Myc. Sib. p. 23, f. 24. — Peritheciis hinc inde dense maculiformiter congregatis hyphisque brevibus atris, ramulosis septatis, cinctis, epidermide diu velatis, 80–100 μ. lat., obsolete papillatis; sporulis bacillaribus utrinque subobtusis, rectis, hyalinis, 28-33 ≃ 1,5-2. 6484

Hab. in ramis Polemonii cœrulei in pratis pr. flum. Syda Sibiriæ (Martianoff). — Cum *Septoria Polemonii* Thüm., non comparanda.

40. **Rhabdospora Cirsii** Karst. — Sacc. Syll. Fung. III, p. 592. — Var. **Calimeridis** Sacc. Myc. Sibir. p. 24, f. 23. — Peritheciis obtuse papillatis, $^1/_4$ mm. lat.; sporulis filiformibus, continuis, curvulis, 45-50 ≃ 1,5. 6485

Hab. in caulibus emortuis Calimeridis altaicæ in desertis pr. Gorodok Sibiriæ (Martianoff).

41. **Rhabdospora Tragopogonis** Rich. Cat. Champ. Marn. Suppl. p. 548. — Peritheciis prominulis, in series lineares dispositis; sporulis eguttatis, 18 μ. long. 6486

Hab. in caulibus Tragopogonis, Lassu, Marne Galliæ. — *Rh. Solidaginis* affinis.

42. **Rhabdospora Lactucæ** Brun. Liste Sphærops. pag. 52. — Peritheciis primo tectis dein erumpentibus, globulosis, nigris, minutis; sporulis linearibus, rectis vel vix curvulis, continuis, 17-23 ≃ 1-2, hyalinis. 6487

Hab. in caulibus emortuis Lactucæ virosæ, Saintes Galliæ.

43. **Rhabdospora Achilleæ** Bres. Rev. Myc. 1891, p. 30, t. 114, f. IX. — Maculis nullis; peritheciis gregariis, elongato-subellipsoideis, epidermide velatis, ostiolo centrali, erumpenti pertusis, 70–90 μ. diam.; sporulis filiformibus, arcuatis, guttulatis, hyalinis, 25-30 ≃ 1,5; basidiis ampulliformibus, 10–15 ≃ 4-5. 6488

Hab. in caule Achilleæ Millefolii pr. Leutschau Hungariæ (Greschik).

44. **Rhabdospora Greschikii** Bres. Rev. Myc. 1891, pag. 30, t. 114, fig. VIII. — Peritheciis dense gregariis, globoso-depressis, minutis, atris, subcutaneis, poro rotundo centrali suberumpente pertusis, 100 6489

μ. diam.; sporulis baciliaribus, hyalinis, 3-septatis, 42-60 ≃ 4-5; basidiis filiformibus brevioribus suffultis.

Hab. in caule Artemisiæ scopariæ, sociâ *Dichomerâ æquivocâ*, pr. Leutschau Hungariæ (Greschik).

45. **Rhabdospora tomispora** Berl. et Bres. Micr. Trid. p. 76. — Peritheciis minutis, in maculis candidis, elongatis v. rotundatis, gregariis, 120-150 μ. diam., nigris, punctiformibus, contextu laxe parenchymatico, fuligineo-rufulo; sporulis filiformibus, 35-45 ≃ 1, curvulis, 3-5-septatis, mox in articulos utrinque truncatos, 12-14 ≃ 1, dilabentibus, hyalinis; basidiis teretibus, ramulosis, longitudine variis. 6490

Hab. in caulibus emortuis Artemisiæ vulgaris pr. Trento.

46. **Rhabdospora Artemisiæ** Trail Fung. Hard. p. 494. — Peritheciis sparsis, æqualiter effusis, globosis, 130-140 μ. diam.; ostiolis prominulis, epidermidem perforantibus; sporulis fusoideo-filiformibus, rectis v. subcurvis, 8-15 ≃ 1, pluriguttatis, hyalinis. 6491

Hab. in caulibus emortuis Artemisiæ vulgaris, Graven Scotiæ.

47. **Rhabdospora subgrisea** Peck in 38 Rep. St. Mus. p. 98. — Peritheciis numerosis, punctiformibus, depressis, nigris, epidermide tectis, sæpe in maculis longis, indefinitis, griseo-brunneis; sporulis filiformibus, rectis v. curvulis, 30-62 μ. longis. 6492

Hab. in caulibus emortuis variarum Solidaginum, Albany Amer. bor. (Clinton).

48. **Rhabdospora Xanthii** Peck 39 Rep. p. 47. — Peritheciis numerosis, parcis, 275-350 μ. lat., depressis, epidermide tenui, brunnea v. nigrificata, ostiolis pertusa tectis; sporulis filiformibus, curvis, hyalinis, 20-30 ≃ 1,5. 6493

Hab. in caulibus emortuis Xanthii strumarii, Albany et North Greenbush Amer. bor.

49. **Rhabdospora Parietariæ** Celotti Mic. Montp. p. 30. — Peritheciis numerosis, sparsis, depressis, innatis, margine epidermide tectis, fuscis, 120-130 μ. diam.; sporulis linearibus, curvulis, initio hyalinis, continuis, dein pallide chlorinis, 3-4-septatis, 25-30 ≃ 1-2, indistincte guttatis. 6494

Hab. in caule Parietariæ officinalis, Montpellier Galliæ.

50. **Rhabdospora Mühlenbeckiæ** Passer. Diagn. F. N. V, n. 45. — Sparsis, hypodermeis, pustuliformibus; peritheciis membranaceis, minute cellulosis, fuscis; sporulis filiformibus, tenuissimis, integris, apice sæpius uncinatis, 20-25 μ. long. 6495

Hab. in ramis Mühlenbeckiæ complexæ, Roma Italiæ.

51. **Rhabdospora Euphorbiæ** Brunaud Liste Sphærops. p. 52. — Peritheciis sparsis v. gregariis, cortice nidulantibus, tectis, minutis, globulosis, ostiolo obtuso, erumpente; sporulis allantoideis, continuis, subinde (raro) utrinque guttulatis, rectis v. parum curvatis, hyalinis, 12-18 = 2. 6496

Hab. in caulibus emortuis Euphorbiæ palustris, Saintes Galliæ.

III. *In Monocotyledoneis et Acotyledoneis.*

52. **Rhabdospora sabalensis** Cooke Grev. XIX, p. 14. — Peritheciis atris, gregariis, subglobosis, innato-erumpentibus, demum subsuperficialibus, ostiolo pertuso; sporulis elongato-fusiformibus, subcurvulis, utrinque acutis, 5-septatis, hyalinis, 50-60 = 4. 6497

Hab. in petiolis Sabal, Aiken Carol. inf. Amer. bor. (Ravenel).

53. **Rhabdospora Chlorogali** Cooke et Hark. in Grevillea XIII, p. 111. — Caulicola, gregaria; peritheciis atris, punctiformibus, subdepressis, cuticula hyalina tectis, demum erumpentibus, seminudis; sporulis bacillaribus, utrinque obtusis, rectis flexuosisve, hyalinis, obscure nucleatis, 30 = 3. 6498

Hab. in caulibus Chlorogali in California (Harkness).

54. **Rhabdospora umbrosa** Bomm. Rouss. Sacc. Contr. Myc. Belg. IV, p. 289. — Peritheciis sparsis, 300-360 μ. diam., innatis subcutaneis, dein erumpentibus, globulosis, poro papillato dehiscentibus; sporulis fusoideo-elongatis, hyalinis, plerumque rectis, 3-septatis, 3-guttulatis, 24-30 = 3, medio lenissime constrictis, utrinque obtusulis, loculo uno subinde inflato. 6499

Hab. in caulibus Polygonati multiflori, Poix Galliæ.

55. **Rhabdospora? leptospora** (Mass.) Sacc., *Cucurbitariopsis leptospora* Mass. Contr. Mic. Ver. p. 133, t. V, f. XXXIII (expositio incorrecta). — Peritheciis globoso-conoideis, intra perithecia *Leptosphæriæ* cujusdam singulatim parasiticis, ostiolo obtusulo cum illo *Leptosphæriæ* confluente, nigricantibus; sporulis elongato-filiformibus, minutissime guttulatis, uno apice acutatis, curvulis, hyalinis, 40-48 = 1,5-2. 6500

Hab. intra perithecia Leptosphæriæ cujusdam ad caules Clematidis? v. Atragenes? speciei in regione subalpina Passo Ristele ad pedes Mont. Zeola in agro veronensi.

B. *Rhabdina* Sacc. Perithecia superficialia, lignicola (ad *Collonema* nutat).

56. **Rhabdospora decorticata** Cooke et Hark. in Grevillea XIII, p. 112. 6501

— Peritheciis erumpenti-superficialibus, subglobosis, atris, papillatis, levibus; sporulis filiformibus, flexuosis vel curvulis, hyalinis, continuis, 25 μ. longis.

Hab. in ligno Acaciæ decorticato in California (Harkness).

57. **Rhabdospora Lagerstrœmiæ** Passer. Diagn. F. N. V, n. 44. — 6502
Peritheciis ligno adnatis, gregariis v. sparsis, subglobosis, ostiolo acuto, carbonaceo, nucleo albo; sporulis fusoideo-filiformibus, utrinque attenuato-acuminatis, hyalinis, crebre septatis, 40-50 ≃ 2,3.

Hab. in ramis siccis Lagerstrœmiæ indicæ, sociâ *Diplodiâ Lagerstrœmiæ,* Parma in horto botanico, Ital. bor.

58. **Rhabdospora Aucubæ** Brun. Esp. Sphærops. p. 3. — Peritheciis 6503
numerosis, gregariis, per ligni fibras seriatim erumpentibus, globuloso-compressis, nigris, pertusis; sporulis filiformibus, rectis v. curvis, hyalinis, 20-25 ≃ 1, continuis.

Hab. in ligno emortuo decorticato Aucubæ japonicæ, Saintes Galliæ.

COLLONEMA Grove in Journ. of Bot. 1886, pag. 136, t. 266, fig. 5 (Etym. a *colla* gluten et *nema* filum, ob sporulas arcte conglutinatas), *Oncosporella* Karst. Symb. Myc. Fenn. XX, pag. 105. — Perithecia subglobosa, subcarbonacea, glabra, superficialia, ostiolo plus minus lato pertusa, subinde papillata. Sporulæ longæ, cylindricæ vel fusoideæ, continuæ, hyalinæ, sæpius in globulum expulsæ. — Est *Aposphæria* scolecospora.

1. **Collonema hemisphæricum** (A. S.) Grove in litt., *Aposphæria? hemisphæria* (A. et S.) Sacc. Syll. III, p. 170.
2. **Collonema schizothecioides** (Pr.) Grove in litt., *Aposphæria? schizothecioides* (Pr.) Sacc. Syll. III, p. 177.
3. **Collonema papillatum** Grove in Journ. of Bot. 1886, pag. 136. — 6504
Peritheciis minutis, gregariis, atris, globosis v. subovatis, basi ligno insculptis, dein liberis, sursum in papillam conicam, pulchram, poro exiguo pertusam, attenuatis, rugosis, 0,8-0,13 mm. diam., nucleo albo, arctissime conglutinato, cirro longissimo, tenuissimo, filiformi; sporulis fusoideis, utrinque longe attenuatis, acutissimis, curvulis, eguttulatis, hyalinis, 18-19 ≃ 2½.

Hab. in corticis Aceris Pseudoplatani pagina interiori, Sutton Coldfield, prope Birmingham Britanniæ, socio *Graphio penicillioide.* — Sporulæ aqua diu suffusæ, difficillime tamen, solvuntur.

4. **Collonema punctiforme** (Karst.) Sacc. *Oncosporella* Karst. Symb. 6505

Myc. Fenn. XX, p. 105. — Peritheciis sparsis v. laxe gregariis, erumpenti-superficialibus, subrotundo-depressis, glabris, contextu fibroso, fuligineo, fusco-atris, 0,1-0,2 mm. diam., mox ore lato apertis; sporulis bacillaribus v. filiformibus, plus minus curvatis, sæpissime falcatis, pluriguttulatis v. spurie pluriseptatis, hyalinis, 27-45 = 3-4, in globulum persistentem pallidum ejectis.

Hab. in ligno vetusto Populi tremulæ in regione mustialensi Fenniæ.

PHLEOSPORA Wallr. Fl. crypt. p. 176, Sacc. Syll. III, p. 577. *Septorella* Berk. Withe Rust. Cabb. p. 7. — Ob perithecii contextum parum distinctum, quasi e matricis cellulis infuscatis formatum, genus hoc fere æquo jure ad *Melanconieas* trahi potest, at in ancipiti hic servari potest. Quocumque vero ponas, certe species ejus typicæ (e. g. *Phl. Mori*) sub *Phleospora* militare debent, nec ad *Septoglœum* adscribendæ sunt, uti cl. Briosi et Cavara nuper fecerunt.

1. **Phleospora Celtidis** E. et M. Journ. Myc. 1887, p. 87. — Maculis griseo-brunneis, centro griseis, irregularibus, coalescentibus; peritheciis atro-brunneis, subglobosis, prominulis, in quaque macula paucis, amphigenis, 200-275 μ. diam.; sporulis subhyalinis, subfusoideis, utrinque subacutis, curvis, 6-8-septatis, 70-80 = 8-10. 6506

Hab. in foliis Celtidis occidentalis, Missouri Amer. bor.

2. **Phleospora Asiminæ** Ell. et Morg. Journ. Myc. 1887, pag. 88. — Maculis atro-brunneis, venulis foliis limitatis; peritheciis valde rudimentariis, minutis, confertis, subtus deficientibus; sporulis oblongo-fusoideis, granuloso-farctis, guttatis, demum 3-septatis, subconstrictis, 20-40 = 12-15, in massam pruinosam exeuntibus; basidiis validis, 10-20 = 6-10. 6507

Hab. in foliis Asiminæ triloba, Preston, Ohio Amer. bor. (A. P. Morgan). — Habitus *Cylindrosporii*. An *Septoglœum?*

3. **Phleospora Æscuii** Cooke in Grev. XVI, p. 48. — Hypophylla; peritheciis innatis, demum supra pertusis; sporulis cylindraceis v. obtuse fusoideis, 3-septatis, 30-35 = 8. hyalinis, in massas exeuntibus. 6508

Hab. in foliis Castaneæ vescæ, Shere Britanniæ (Doct. Capron).

4. **Phleospora Anemones** E. et K. Journ. Mycol. 1887, p. 88. — Maculis purpurascentibus, in folio flavido; peritheciis subtus distincte 6509

prominulis, poro lato pertusis; sporulis cirroso-exeuntibus, hyalinis, guttatis, demum 3-septatis, circ. 25-40 ≃ 3.

Hab. in foliis Anemones, Kansas Amer. bor. (KELLERMAN).

5. **Phleospora Trifolii** Cavara App. Pat. Veg. p. 7, t. 6, f. 5-6. — 6510
Peritheciis globoso-lenticularibus, in maculis flavescentibus nervisequis, sparsis, amphigenis, epidermide tectis, late pertusis, 170-180 μ. diam.; sporulis crassiusculis, fusoideis vel teretibus, rectis aut suballantoideis, continuis v. obsolete 1-3-septatis, utrinque obtusis, initio guttulatis, hyalinis, in nubeculas diffluentibus, 16-18 ≃ 4-5.

Hab. in foliis Trifolii repentis in agro ticinensi Italiæ. —
— Var. **recedens** C. Mass. Contr. Mic. Ver. p. 96: maculis oblongis, majoribus; sporulis crassiusculis, subfusiformi-cylindraceis, rectis v. curvulis, plurimis continuis, rarius 1-3-septatis, interdum subarticulatis, utrinque obtusis, vulgo 16-24 ≃ 5-5,5. In foliis Trifolii pratensis in collibus pr. Tregnago pr. Veronam Ital. bor.

6 **Phleospora Oxytropidis** Ell. et Gall. Journ. Myc. 1889, p. 65. — 6511
Peritheciis amphigenis, innato-erumpentibus, circ. 200 diam., sparsis, nigris; sporulis cylindraceis v. ovoideis, 40-50 ≃ 3,5-4,5, hyalinis, rectis v. obtusis, in massam hyalinam exeuntibus.

Hab. in foliis Oxytropidis Lamberti, Great Falls, Montana Amer. bor. (F. W. ANDERSON).

7. **Phleospora reticulata** Ell. et Ev. Proc. Acad. Phil. 1891, p. 81. 6512
— Maculis subquadratis, 1 mm. lat., plerumque marginalibus, albis, atro-marginatis, numerosis et confluentibus in maculam oblongam amplam, 1-2 ≃ 0,5., obscurius limbatam, maculis minoribus reticulatam; sporulis linearibus, 100-160 ≃ 3,5-4, utrinque tenuatis, 3-6-septatis, sæpe constrictis, mox in cirrum carneolum ejectis.

Hab. in foliis Lathyri palustris London Canada (DEARNESS). — Perithecia imperfecta, quasi e cellulis matricis infuscatis composita.

8. **Phleospora baccharidicola** Speg. F. Puigg. n. 427. — Maculis nul- 6513
lis; peritheciis hinc inde dense aggregatis, noduloso-prominulis globulosis, 150-180 μ. diam., atris, coriaceis, ostiolatis; sporulis cylindraceis, utrinque obtusissimis, rectis vel arcuatis, continuis v. rarius 1-2-pseudoseptatis, 60-100 ≃ 4-5.

Hab. ad folia viva Baccharidis sp. cujusdam in dumetis prope Apiahy Brasiliæ.

9. **Phleospora achyranthea** Sacc. et Berl. in Rev. Myc. 1885. — Ma- 6514
culis albidis vel ochraceis; peritheciis innatis, matrice parum mu-

tata efformatis, late ostiolatis; sporulis bacillaribus, rectis curvulisve, binucleatis vel spurie 1-2-septatis, 18-24 ≃ 3, hyalinis.

Hab. in foliis vivis Achyranthis argenteæ in Algeria.

10. **Phleospora Chenopodii** Ell. et Kell. in Journ. Myc. 1888, p. 26. — 6515
Maculis amphigenis, suborbicularibus, ¼-½ cm. diam., pallide rubiginoso-brunneis, margine elevato viridulo cinctis, plus minus concentrice corrugatis; peritheciis amphigenis, erumpenti-superficialibus, nigris, majusculis, sparsis, imperfecte evolutis, subtus fere obsoletis, supra late pertusis; sporulis oblongo-cylindraceis, utrinque obtusis, 3-septatis, pallide brunneolis, ad septa constrictis, 20-35 ≃ 8-11.

Hab. in foliis Chenopodii albi, Manhattan, Kansas Amer. bor. (Kellerman et Swingle). — Secundum auct. diversa a *Septoria Chenopodii* West.

11. **Phleospora Caricis** E. et E. Journ. Myc. 1888, p. 49. — Macu- 6516
lis rotundis, sordide albidis, 1-2 mm. diam., rubiginoso-cinctis; peritheciis amphigenis, immersis, rudimentariis, parvis, nigris, 1 vel pluribus in quaque macula, subprominulis; sporulis fusoideo-oblongis, hyalinis, 4-7-septatis, 40-60 ≃ 12-14.

Hab. in foliis vivis Caricis angustatæ, sociâ *Septoriâ lineolata*, Faulkland, Del. Amer. bor. (A. Commons).

PHLYCTÆNA Mont. et Desm. — Syll. III, p. 593.

1. **Phlyctæna Kerriæ** Karst. Rev. Myc. 1887. — Peritheciis sparsis, 6517
epidermide fissa tectis, inæqualiter rotundis, depressis, subincompletis, ⅓ mm. diam.; sporulis filiformi-uncinatis, curvatis v. subflexuosis, hyalinis, 18-26.

Hab. in ramis aridis Kerriæ japonicæ pr. Rouen in Gallia (J. B. P. Letendre). — *Phl. phomatellæ*, *Phl. arcuatæ* et *Phl. Gossypii* maxime affinis.

2. **Phlyctæna Passifloræ** Cooke et Mass. XVI, p. 3. — Caulicola; pe- 6518
ritheciis densissime gregariis, minutis, innatis, demum erumpentibus, deorsum incompletis; sporulis filiformi-uncinatis, hyalinis, 35 ≃ 1.

Hab. in ramis Passifloræ, Brisbane Australiæ (Bailey).

3. **Phlyctæna Psoraleæ** (Cast.) Karst. et Har. Journ. Bot. 1890, 6519
p. 360, *Sphæria Psoraleæ* Cast. Cat. Mars. pag. 166 p. p. — A *Phl. vagabunda*, cui maxime affinis, videtur diversa sporulis eguttulatis, 21-30 ≃ 3-4.

Hab. ad caules Psoraleæ mixta cum *Dipl. Psoraleæ* prope Marseille Galliæ (Castagne).

4. **Phlyctæna Pini** Celotti Micet. Montp. p. 30, f. 4. — Peritheciis 6520
hysteriiformibus, longitudinaliter dispositis, fusoideis, 1-1,5 mm. long., $1^1/_4$ mm. lat., rima angustissima dehiscentibus; sporulis filiformibus, flexuosis, hyalinis, 60-70 ≃ 1,5-2; basidiis non visis.

Hab. in foliis emortuis Pini, Montpellier Galliæ.

5. **Phlyctæna strobilina** Karst. et Har. 1890, n. 47. — Peritheciis 6521
gregariis, erumpentibus, difformibus, ut plurimum ovalibus, hysteriiformibus, sat late subhysterioideo-dehiscentibus, circ. 0,3 mm. long.; sporulis filiformibus, utrinque attenuatis, 5-11-septatis, curvulis vel flexuosis, hyalinis, 50-62 ≃ 1-3.

Hab. ad squamas strobilorum Abietis excelsæ, Pont-sur-Seine, Aube Galliæ.

6. **Phlyctæna Magnusiana** Allesch. in Allesch. et Schnabl. F. Bav. 6522
n. 188, *Septoria Magnusiana* Allesch. in litt. — Peritheciis sparsis vel gregatim acervatis, subglobosis, atris, inferne incomplete evolutis, amphigenis 120-130 μ. diam., poro rotundo v. inæqualiter lobato, 30-40 μ. lat. pertusis; sporulis rectis vel sinuosis, raro subcurvatis, utrinque obtusis, guttulatis vel spurie 2-3-septatis, 20-45 ≃ 1,5-2.

Hab. in foliis languescentibus Apii graveolentis, Elbach prope Miesback Bavariæ super. (Allescher).

SPHÆROGRAPHIUM Sacc. Syll. III, p. 597.

1. **Sphærographium Lantanoidis** Peck in 38 Rep. St. Mus. pag. 96. 6523
— Peritheciis minutis, teretibus vel subconoideis, apice truncatis, atris; sporulis subfiliformibus, curvulis vel flexuosis, utrinque leniter acutis, sæpe multinucleatis, 40-62 μ. longis, hyalinis, in globulum album eructatis.

Hab. in caulibus emortuis Viburni lantanoidis in montibus Adirondack Amer. bor.

2. **Sphærographium Coryli** Rich. Cat. Champ. Marn. n. 1766. — Pe- 6524
ritheciis simplicibus vel gregariis, collo longo præditis; sporulis fusoideis; basidiis dendroideo-ramosis.

Hab. in ramis emortuis Coryli Avellanæ, Chaussée, Marne Galliæ.

3. **Sphærographium Coluteæ** Rich. Cat. Champ. Marn. n. 1765. 6525

Hab. in ramulis junioribus Coluteæ arborescentis, St-Amand Galliæ. — Diagnosis desideratur.

CORNULARIA Karst. — Syll. III, p. 598.

1. **Cornularia ulmicola** Ell. et Ev. Proc. Acad. Phil. 1891, p. 77. — 6526
Peritheciis tereti-clavatis, nigris, 0,5–1 mm. alt., basi 74 μ. cr., sursum usque 100 μ. cr., apice tenuatis, contextu fibroso, fibrillis sursum in fasciculum densum capitatum secedentibus; sporulis in capitulo inclusis, anguste fusoideis, pallide flavidis, multinucleatis, demum pluriseptatis, 70-80 ≃ 3, utrinque acutatis et contrarie incurvis; basidiis filiformibus 35 μ. long.

Hab. in cortice emortuo Ulmi, London Canada (Dearness). — Affinis *C. hispidulæ* sed glabritie et sporulis diversa.

2. **Cornularia Rhois** Karst. Rev. Myc. 1890, n. 47. An *Sphæronæma* 6527
Rhois Berk., Syll. III, p. 189? — Peritheciis sparsis, atris, suberumpentibus, conoideo-rotundatis, rostro cylindraceo, emerso, perithecium excedente; sporulis fusoideo-bacillaribus, curvulis, spurie septatis, hyalinis, 54–63 ≃ 3-4.

Hab. ad ramos corticatos emortuos Rhois, Ohio Amer. bor. (Lesquereux).

3. **Cornularia Boudieri** Rich. Cat. Camp. Marn. n. 1768. — Perithe- 6528
ciis minutissimis, elongatis, nigris, apice incrassatis; sporulis aculeiformibus, ad perithecii apice demum congestis.

Hab. in cortice Pini, Ablancourt Galliæ.

GAMOSPORA Sacc. Misc. Myc. II, p. 9 (Etym. a *gamos* connubium et *spora*). — Perithecia subsuperficialia, globulosa, minuta, subastoma, membranacea, setis divergentibus, atris vestita. Sporulæ bacillares, pluriseptatæ, hyalinæ, in sterigmatis communis apice subternæ et cum eo persistentes; basidia bacillaria, brevia, apice sterigmata subterna gerentia. — In grege *Sphærioidearum scolecosporarum* sectionem propriam sistit.

1. **Gamospora eriosporoides** Sacc. et Berl. Misc. Myc. II, pag. 9 et 6529
Rev. Myc. 1885. — Peritheciis epiphyllis, mycelio tenuissime maculoso, fusco interspersis, punctiformibus, globoso-depressis, setulis cuspidatis, septatis, rectis, 140–150 ≃ 4-5, atro-fuligineis parce vestitis; contextu perithecii minute celluloso, dilute fuligineo prope basim subprosenchymatico; sporulis bacillaribus, rectis, utrinque obtusiusculis, 3-4-septatis, 50-60 ≃ 7, in apice sterigmatis subternis et eo persistenter hærentibus; sterigmatibus subternis in basidio communi et ab eo mox secedentibus; sterigmatibus basidiisque sporulæ tertiam partem æquantibus.

Hab. in foliis coriaceis languidis, Logan Australiæ. — Sporulæ basi, *Eriosporæ* fere ad instar, diu connexæ, tandem vero interdum secedunt.

SEPTOSPORIELLA Oud. Contr. Mycol. XIII, p. 52 (Etym. a *Septoria*, cui affinis) [nec *Septorella* Berk. quæ = *Phleospora*]. — Stroma intus locellatum. Sporulæ pluriseptatæ, muticæ, dilute coloratæ, in basidiis simplicibus acrogenæ. – Est quasi *Septoria* stromate dothideaceo prædita.

1. **Septosporiella Phragmitis** Oud. Contr. Myc. loc. cit. f. 34. — Stro- 6530
matibus erumpentibus, angustis, ostiolis punctiformibus vix notatis, loculis 90–100 μ. diam., mono- vel distichis perfossis; sporulis bacillaribus, rectis vel curvis, 2–8-septatis, 50 ≃ 3,5 vel brevioribus, dilute olivaceis; basidiis monosporis, tenuissimis; sporulis subbrevioribus.

Hab. in culmis et vaginis Phragmitis communis, Loosduinen Nederlandiæ.

CYTOSPORINA Sacc. — Syll. III, p. 601.

1. **Cytosporina Persicæ** Brun. Suppl. Sphæroid. p. 5. — Stromati- 6531
bus corticalibus, nigris, subrotundis, oblongis vel irregularibus, subpulvinatis, nigris, epidermide decolorata, demum rupta tectis, locellis majusculis, interdum plus minus circinantibus; sporulis filiformibus, 50–60 ≃ 1,5–2, hyalinis, pluriseptatis.

Hab. in ramulis emortuis Persicæ vulgaris, Pessines pr. Saintes Galliæ.

2. **Cytosporina Staphyleæ** Cooke in Grev. XVI, p. 48. — Stromate 6532
minuto, sparso, nigro, convexo, erumpenti; sporulis cylindraceis, obtusis, curvis, multiguttatis, 25 × 4; basidiis brevissimis.

Hab. in ramis Staphyleæ trifoliatæ, Kew Britanniæ.

3. **Cytosporina hysterioides** Cooke in Grev. XVI, p. 48. — Stroma- 6533
tibus gregariis, elongatis, ellipsoideis, per epidermidem hysterioideo-erumpentibus, nigris; sporulis cylindraceis, obtusis, curvis, continuis, hyalinis 20 ≃ 4; basidiis brevibus.

Hab. in ramis Celtidis, Kew Britanniæ.

4. **Cytosporina Quercus** Pass. in Brun. Champ. Saint. V, pag. 7. — 6534
Stromatibus numerosis, sparsis, pustuliformibus, erumpentibus, globosis, astomis, epidermide cinctis; sporulis bacillari-fusoideis, incurvis, continuis, hyalinis, 30–45 ≃ 2–2,5.

Hab. in ramis emortuis Quercus, Pessines pr. Saintes Galliæ.

GELATINOSPORIUM Peck — Syll. III, p. 596.

1. **Gelatinosporium fulvum** Peck in 38 Rep. St. Mus. pag. 97. — Peritheciis cæspitosis, stipatis, erumpentibus, externe pulverulentis, pallide brunneis, madore apice dehiscentibus et tum massam sporularum albam ostendentibus; sporulis elongatis, curvis, utrinque attenuatis, 75 μ. longis, hyalinis. 6535

   Hab. in ramis emortuis Betulæ luteæ, Caroga Amer. bor.

2. **Gelatinosporium magnum** Ellis North Am. F. n. 957. — Peritheciis transverse erumpentibus, globoso-conoideis, nigris, 2-4-aggregatis, subcoriaceis; sporulis teretiusculis, falcatis, utrinque rotundatis, nubilosis, hyalinis, 45 ≃ 4. 6536

   Hab. in cortice ramulorum emortuorum Betulæ, Decorah Jowa Amer. bor. (E. W. Holway). — A *Gel. betulino* differt sporulis crassiusculis, curvatis, utrinque obtusulis, an satis?

MICROPERA Lév. — Syll. III, p. 601.

1. **Micropera Mali** Pass. in Erb. Critt. Ital. Ser. II, n. 1488. — Peritheciis ut *Microperæ Drupacearum* sed nigris, apice cæsio-pruinosis; sporulis etiam similibus sed brevioribus, 18–32 ≃ 1,5. 6537

   Hab. in ramis emortuis Piri Mali prope Parma Ital. bor.

Fam. 2. **Nectrioideæ** Sacc.

Subfam. 1. **Zithieæ** Sacc.

Sect. 1. **Hyalosporæ.**

ZYTHIA Fr. — Syll. III, p. 614.

1. **Zythia Pinastri** Karst in Rev. Myc. 1885, pag. 106. — Peritheciis erumpentibus, subcæspitosis vel sparsis, conoideis vel rotundatis, siccis difformibus, inæqualibus, subinde ostiolo papillato præditis, aurantiacis, glabris, 0,2-0,3 mm. diam.; sporulis elongatis vel fusoideo-oblongatis, eguttulatis, hyalinis, 2-3,5 ≃ 0,5-0,6, madore in cirros aureos expulsis; basidiis filiformibus, circiter 15 ≃ 1-1,5. 6538

   Hab. ad folia Pini silvestris dejecta in regione aboensi Fenniæ.

2. **Zythia resinæ** (Ehrenb.) Karst. Symb. Myc. Fenn. XXI, p. 104, *Cytospora* Ehrenb., *Tubercularieæ resinæ* (Ehrenb.) Thüm., Syll. 6539

IV, pag. 649. — Peritheciis gregariis vel sparsis, superficialibus, ovoideis v. sphæroideis, levibus, sordide rubris v. aurantio-lateritiis demum poro obsolete pertusis, contextu membranaceo, 0,2-0,3 mm. diam.; sporulis sphæroideis, hyalinis, 1,5-2 μ. diam.

Hab. in resina recenti Pini silvestris, P. austriacæ in Germania, Austria, Fennia.

3. **Zythia ovata** Peck 49 Rep. p. 47. — Peritheciis ovatis, udis rubentibus v. carneis, siccis nigris, 2-3-gregariis, subsuperficialibus, 625-750 μ. long., 425-450 μ. lat.; sporulis oblongis, hyalinis, 7,5 ≃ 3; basidiis dense fasciculato-ramosis. 6540

Hab. in cortice emortuo Populi, South Ballston Amer. bor.

4. **Zythia Galii** Oud. Contr. Flor. Myc. Pays-Bas XI, pag. 34. — Peritheciis hypophyllis, $^1/_{10}$ mm. latis, depresse globosis, diu sub epidermide latentibus, membranaceis, tenuissimis, coloris fulvi maxime diluti, denique ostiolo simplici apertis; sporulis numerosissimis, continuis, hyalinis, 8-10 ≃ 2. 6541

Hab. in foliis Galii Molluginis, Putten Hollandiæ. — Usque dum latent perithecia, folia pellucide punctata facile crederes.

5. **Zythia Nectriola** Speg. Guar. I, p. 151. — Maculis amphigenis, parvulis, 2-3 mm. diam., indeterminatis, pallescentibus, parum manifestis; peritheciis hypophyllis, sparsis, globosis, minutissimis, 60-80 μ. diam., griseo-albis, tenuissime membranaceis, astomis, rugulosis, subiculo mucoso, hyphis exilissimis, parum manifestis efformato, insidentibus; sporulis ellipticis v. subcylindraceis, 4-6 ≃ 1, utrinque rotundatis, rectis v. inæquilateralibus, hyalinis. 6542

Hab. ad folia languida Commelinæ sp. cujusdam, in silvis valleculæ Yakan inter Paraguarí et Valenzuela Brasiliæ.

6. **Zythia lancispora** Speg. Guar. I, p. 151. — Maculis nullis v. vix manifestis, fuscescentibus; peritheciis epiphyllis, globulosis, 250-300 μ. diam., adnato-superficialibus, fuscis v. fuscescentibus, glabris, rugulosis, carnosulis, mycelio asteromaceo, parum evoluto insidentibus, contextu indistincto circa ostiolum papillatum, vix manifestum nigrescente, ceterum fulvo; sporulis lanceolatis, 12-14 ≃ 2,5-3, rectis vel vix curvulis, sursum attenuato-acutis deorsum attenuato-truncatis, nubilosis, in pedicello a matrice non secedente brevi acrogenis, hyalinis. 6543

Hab. ad folia viva Bambusaceæ cujusdam pr. Naranjo Brasiliæ.

7. **Zythia lonchosperma** Speg. Guar. I, p. 150. — Peritheciis subiculo compactiusculo, albo, ex hyphis rectis, non v. ramosis, 2 μ. 6544

cr., hyalinis, septulatis, composito, insidenti-aggregatis, globulosis vel subovatis, 200–250 μ. diam., carneo-aurantiis, glabris vel minutissime squarruloso-puberulis, membranaceis, contextu indistincto, circa ostiolum hyalino, ceterum sanguineo; sporulis lanceolatis, 28–30 ≈ 4–5, nubilosis, sursum attenuato-acutissimis, deorsum subattenuatis, truncatis, pedicello parvulo, a matrice secedente auctis, hyalinis.

Hab. ad Cocci emortui sp. quamdam in foliis putrescentibus Laurineæ indeterminatæ pr. Peribebuy Brasiliæ.

CHÆTOZYTHIA Karst. Symb. Myc. Fenn. XXVIII, p. 41 (Etym. *chæte* seta et *Zythia*). — Perithecia superficialia, ovoidea, astoma, membranacea, mollia, aurantiaca, setulis obsessa. Sporulæ ellipsoideæ, continuæ, aureæ.

1. **Chætozythia pulchella** Karst. loc. cit. — Peritheciis sparsis vel subcæspitosis superficialibus, ovoideis levibus, roseo-aurantiacis undique, vertice excepto, setulis divergentibus, strictis continuis, albis, 30–50 ≈ 2–4 obsitis, circiter 0,2 mm. diam.; sporulis sphæroideo-ellipsoideis vel ovalibus, continuis, hyalino-aureis, 10–13 ≈ 7–9. 6545

Hab. supra librum ramulorum emortuorum Syringæ vulgaris in horto mustialensi Fenniæ.

EUROTIOPSIS Karst. Rev. Myc. 1889 (Etym. ab *Eurotio*, cui analogum). — Perithecia superficialia, hyphis repentibus suffulta, sphæroidea, astoma, tenuissime membranacea, glabra, sulphurea. Sporulæ globulosæ, continuæ, hyalinæ.

1. **Eurotiopsis minima** Karst. loc. cit. — Peritheciis sæpius glomerulatim aggregatis, glaberrimis levissimis sulphureis 60-90 μ. diam., contextu tenuissime membranaceo, imperspicue parenchymatico, hyalino; hyphis hyalinis vel fulvescentibus, levibus, basi asperulis vel granulosis, fulvis, apice recto, obtuso, rotundato, hyalino; sporulis sphæroideis vel ellipsoideo-sphæroideis, 3–4 μ. diam. vel 4 ≈ 3. 6546

Hab. supra corticem arborum frondosarum vetustum in Minas Geraes Sitio Brasiliæ (Edw. Wainio). — *Eurotio? bonariensi* Speg. affinis, sed minor.

PLEOSPOROPSIS Œrst. — Syll. III, p. 693.

1. **Pleosporopsis Heteromeles** Cooke et Hark. in Grev. XIII, p. 111. — Hypophylla; peritheciis gregariis, aurantio-fulvis, globoso-de- 6547

pressis, 1/2 mm. glabris, pulpa pulverulenta, flavida; sporulis globosis, subpellucidis, 8 μ. diam.

Hab. in foliis emortuis Heteromeles in California (HARKNESS).

SPHÆRONÆMELLA Karst. — Syll. III, p. 617.

1. **Sphæronæmella Rosæ** Ell. et Ev. Journ. Myc. 1889, p. 152. — Peritheciis erumpentibus, epidermide lacerata cinctis, membranaceis, ovatis, flavidis, dein nigricantibus, circ. 1/5 mm. diam., nucleo albo, supra in ostiolum breve, cylindraceum, membranaceum, pallidum, dein sporularum globulo flavo coronatum attenuatis; sporulis angustis, ellipsoideis, hyalinis, continuis, 4,5–5,5 ≃ 2,5–3. 6548

   Hab. in ramis emortuis et calycibus vetustis Rosæ lucidæ, Newfield, N. J. Amer. bor.

2. **Sphæronæmella carnea** Ell. et Ev. Journ. Myc. 1889, p. 152. — Peritheciis gregariis, erumpentibus, carneis, subulatis, 2 mm. long., basi nucleum sporuligerum continente incrassatis; sporulis oblongis, hyalinis, continuis, circ. 15 ≃ 4, utrinque rotundatis, 6549

   Hab. in cortice Aceris ad lacum Skaneateles, New York Amer. bor. (Rev. J. L. ZABRISKIE).

3. **Sphæronæmella mirabilis** Speg. F. Puigg. n. 428. — Peritheciis gregariis vel subfasciculatis cylindraceis cinnabarinis glabris 2–3 mm. long., 250–300 μ. cr., rectis v. subarcuatis; sporulis ellipsoideis vel ovoideis, hyalinis, 2,5–4 ≃ 1–1,5; basidiiis filiformibus 6–10 ≃ 1 monosporis, cavitatem intern. perithecii occupantibus. 6550

   Hab. ad cortices dejectos putrescentes in silvis prope Apiahy Brasiliæ. — Species pulchella habitu *Stilbum cinnabarinum* capitulo orbatum simulans. Species simillima specimini sterili, sub nomine *Psilopeziæ mirabilis* B. et C., a Clar. Wrightio misso; an identica?

4. **Sphæronæmella filicina** Cooke et Mass. Grev. XIX, p. 4. — Peritheciis cylindricis 1 mm. long., carneis, apice perforatis superficialibus, sparsis; sporulis continuis, ovalibus, hyalinis, 3 ≃ 2. 6551

   Hab. in Hymenophyllo in Nova Zelandia (COLENSO).

5. **Sphæronæmella fimicola** March. Champ. copr. VI, p. 12. — Peritheciis sparsis raro gregariis, superficialibus, sphæroideis, 150–250 μ. diam., membranaceis, mollibus, luteolis, glabris, in ostiolum subulatum cylindraceo-conicum, vertice hyalino-penicillatum, 700–820 μ. longitudine productis; sporulis ellipsoideis, hyalinis, leniter curvatis vel rectis, 7–7,5 ≃ 2–2,5 μ. muco obvolutis, ad ostioli apicem 6552

demum singulis expulsis et globulum ovoideum albidum, 130 ≃ 85 μ. formantibus.

Hab. in fimo leporino canino et vulpino, Boitsfort, Spa, Recogne, Montbliart Belgii (Ap. Hardy). — Affinis *S. Helvellæ* sed ostiolo et sporulis mox distincta. — Var. β. **minor** March. loc. cit.: peritheciis minus evolutis, ostiolo plane conico, haud subnoduloso, in fimo cuniculorum, Limelette Belgii.

ASCHERSONIA Mont., Syll. III, p. 619, nec Endl. (quæ =*Laschia*).

1. **Aschersonia viridans** (B. et C.) Pat. Bull. Soc. Myc. 1891, p. 48, 6553
Hypocrea B. et C., Syll. II, p. 532. — Sec. Pat. loc. cit. sporulæ ascis nullis inclusæ, fusoideæ, hyalinæ, 12–15 ≃ 2–3; basidia bacillaria simplicia, perithecii superficiem internam occupantia; hinc vera *Aschersonia* nec *Hypocrea*. Quoad *A. oxysporam* cfr. Speg. F. Puigg. n. 475.

MUNKIA Speg. Guar. I, p. 155. — Stromata globosa vel lenticulari-hemisphærica, majuscula, punctulata, intus suberoso- vel flocco-so-compacta, alba, cortice vix distincto. Loculi stromate infossi, subcupulato-aperti, hyphis penicillatim exsilientibus farcti; hyphæ simplices, cylindraceæ, rectæ. Sporulæ globosæ, simplices, hyalinæ, in hyphis pleurogenæ. — Genus perquam singulare, nulli alii affine; ad interim hoc loco in systemate receptum et probabiliter statum *Hypocrellæ* cujusdam stylosporicum sistens.

1. **Munkia Martyris** Speg. Guar. I, p. 155. — Stromatibus globoso- 6551
lenticularibus, 6 mm. diam., 4–5 mm. cr., duris, coriacellis, irregulariter applanatis v. rimula parum profunda percursis, extus sordide griseis, basi v. parte infera excepta, punctulis albis, tomentellis dense inspersis, intus albis, flocculoso-compactis; loculis subglobosis, 200–300 μ. diam., spatio duplo separatis, numquam confluentibus, parum insculptis, ostiolo latissimo, 150–200 μ. diam., donatis, hyphis fasciculatis, longe ex eo penicillatim exsilientibus; hyphis liberis totum cavum loculorum implentibus, gracilibus, 450–600 ≃ 2,5; sporulis globosis vel inferne nonnihil depressis, 2,5–3,5 μ. diam., grosse 1-guttulatis, hyalinis, papillis pleurogenis hypharum solitarie fultis.

Hab. ad ramulos hornotinos Bambusaceæ cujusdam in paludosis pr. Guarapi Brasiliæ.

Sect. 2. Phæosporæ.

MARTINELLA Cooke et Mass. Grev. XVIII, p. 7, ut subg. (Etym. a Domina MARTIN mycologa alacri australiensi). — Stroma et perithecia *Polystigminæ* sed sporulæ subsphæroideæ v. ellipticæ, continuæ, fuscæ.

1. **Martinella Eucalypti** (Cooke et Mass.) Sacc. *Polystigmina* Cooke et Mass. loc. cit. — Epiphylla; stromate suborbiculari, carnoso, planiusculo, rufo-fusco; peritheciis minutissimis, immersis, saturatioribus, ostiolo pertuso; sporulis sphæroideo-ovalibus, continuis, læte fuscis, 6 ≃ 4. 6555

Hab. in foliis Eucalypti, Lilydale Victoria Australiæ (Mrs. MARTIN).

Sect. 3. Didymosporæ.

PSEUDODIPLODIA Karst. — Syll. III, p. 621.

1. **Pseudodiplodia corticis** Grove in Journ. of Bot. 1886, p. 197. — Late effusa; peritheciis gregariis vel in lineas breves aut maculas contractis, 1-1,4 mm. diam., globulosis vel oblongis, levibus, nitidis, contextu ceraceo mollissimo, olivaceo, minute celluloso, emergentibus, denique semisuperficialibus, siccis atro-fuscis, poro pertusis exiguo, dein celeriter dilatato, subinde phacidiiformiter vel hysteriiformiter laceratis, mox parte superiore prorsus evanidis; nucleo olivaceo, senio (disco) subnigro; sporulis oblongis, subfusiformibus, utrinque obtusis vel basi vel apice acutatis, rarius curvulis, diu continuis, dein senioribus tenuiter uniseptatis, vix constrictis, vix guttulatis, singulis hyalinis, coacervatis dilute olivaceis, 10-14 ≃ 3-4; basidiis subramosis, fasciculatis, duplo-triplo longioribus suffultis. 6556

Hab. in pagina interiori corticis vel etiam in ligno Aceris Pseudoplatani, Sutton Coldfield, prope Birmingham Britanniæ. — A *P. lignaria* Karst. differt loco natali, sporulis angustioribus, sed imprimis peritheciorum magnitudine, quæ 5-7-plo majora. An his notis satis distincta? Num vere e Nectrioideis sit, dubium manet.

Sect. 4. Hyalophragmiæ.

STAGONOPSIS Sacc. — Syll. III, p. 621.

1. **Stagonopsis Phaseoli** Erikss. in Bot. Centralbl. 1891, n. 36, p. 298. 6557
— Maculis orbicularibus, 6-12 mm. diam., brunneis; peritheciis epiphyllis, præsertim in partibus exterioribus maculæ laxe gregariis v. sparsis, pallide carneis, ostiolatis, 60-80 μ. diam.; sporulis subfusoideis, 1-3-septatis, hyalinis, 17-24 ≈ 3-4.

Hab. in foliis Phaseoli vulgaris in Suecia.

2. **Stagonopsis virens** Mout. Ascom. Lieg. II, pag. 8. — Peritheciis 6558
sparsis, maculas viridulas effusas in caule giguentibus, globoso-depressis, $^1/_5$ mm. diam., pertusis, contextu amœne virente; sporulis in basidiis bacillaribus continuis, brevissimis acrogenis, longe fusiformibus, 7-8-cuboideo-nucleatis spurieque septatis, sæpe curvulis, hyalinis, 35-40 ≈ 5.

Hab. in caulibus Angelicæ et Spirææ Ulmariæ, Beaufays et Forêt Belgii.

3. **Stagonopsis Peltigeræ** Karst. Symb. XX, pag. 106. — Peritheciis 6559
laxe gregariis, subsuperficialibus, ceraceis, nudis, sphæroideis, dein sæpe cupulato-depressis, demum poro pertusis, testaceis, tandem præcipue siccitate, fulvescentibus, 300-400 μ. lat.; sporulis oblongatis, utrinque obtusis, curvulis, raro rectis, spurie 1-3-septatis, 16-22 ≈ 4,5-6.

Hab. in thallo languido Peltigeræ caninæ prope Mustiala Fenniæ. — Cum *Nectria erythrinella* v. *N. lecanode* metagenetice conjuncta.

Sect. 5. Scolecosporæ.

TRICHOCREA March. Champ. copr. VI, p. 14 (Etym. *thrix* pilus [basidium] et *creas*, caro). — Perithecia superficialia, ovoidea, contextu parenchymatico, ceraceo-molliuscula, læticoloria, initio clausa demum late aperta, fere discoidea. Sporulæ numerosissimæ, anguste cylindraceæ, 1-septatæ, hyalinæ, basidiis elongatis, filiformibus, dense fasciculatis, sursum 1-3-ramosis, suffultæ.

1. **Trichocrea stenospora** March. loc. cit. — Peritheciis sparsis, gla- 6560
bris, pallide ochraceis, 500-700 ≈ 250-380; sporulis rectis sæpe intus minute granulosis vel nucleolatis, utrinque rotundatis, ad septum non constrictis, 16,2-18 ≈ 1,7-1,9.

Hab. in fimo vetusto damarum, Tervueren Belgii. — Ob basidia longe filiformia et dense fasciculata ad *Tuberculariam* nutat, sed perithecium perfectum adest.

RHYNCHOMYCES Sacc. et March. Champ. copr. p. 28 (Etym. *rhynchos* rostrum et *myces* fungus). — Perithecia subglobosa, in rostrum subulatum abeuntia, molliuscula, læte colorata (ochraceo-rubentia). Sporulæ fusoideo-bacillares, acutæ, 1-septatæ, hyalinæ, deorsum in setulam (basidium?) cuspidatam sensim attenuatæ. — Est quasi *Sphæronæmella* scolecospora.

1. **Rhynchomyces Marchalii** Sacc. in March. Champ. copr. pag. 28. 6561
— Peritheciis gregariis vel subaggregatis, superficialibus, ovoideo-subglobosis extus hyalino-papillosis, flavicantibus, contextu laxe celluloso, 140-160 × 110-125, ostiolo subulato-rostrato, 255-265 × 35-45, stricto, glabro, ochraceo, contextu e cellulis vermicularibus, subparallelis conflato; sporulis ad apicem rostri demum expulsis et globulum albidum, ellipsoideum formantibus, fusoideo-bacillaribus, rectis vel leniter curvis, apice acutis, deorsum sensim stipitato-setigeris, 65-70 × 5,4-,5,6, 1-septatis, non constrictis, hyalinis, sæpius strato mucoso, diaphano involutis.

Hab. in fimo vulpino in Arduennis. — Septulum adest obsoletum in limite inferiore sporulæ versus stipitem seu setulam. — *Eleutheromycetem longisporum* in mentem revocat, sed in præsente genere asci vere nulli.

Subfam. 2. **Patellineæ** Sacc.

OLLULA Lév. in Ann. Sc. Nat. 1863, pag. 299 (Etym. ab *olla*). — Cupulæ submembranaceæ, concavæ, late apertæ, basi puncto matrici adnatæ; discus læte coloratus e basidiis ramosis, apice monosporis formatus. Sporulæ oblongæ, continuæ, hyalinæ. — « An *Patellinæ* affinis? »

1. **Ollula pezizoidea** Lév. in Ann. Sc. Nat. 1863, pag. 299. — Peri- 6562
theciis levibus, albis, disco aurantiaco; sporulis oblongis, continuis, incoloribus, diametro triplo quadruplove longioribus.

Hab. ad cortices, Villeta la Vega Nov. Granat. — Fungillus hic exacte faciem minusculæ *Peziçæ* aurantiacæ exhibet.

TRICHOSPERMA Speg. F. Guar. II, n. 179 (Etym. *thrix* pilus et *sperma* spora). — Cupulæ ceraceæ parvulæ, subiculo phyllogeno tenui

albo insidentes. Sporulæ filiformes dense constipatæ e strato proligero immediate oriundæ.

1. **Trichosperma pulchellum** Speg. F. Guar. II, n. 179. — Subiculi 6563
cæspitulis parvulis 0,5-1 mm. diam., hypophyllis, marginalibus ad folii denticulos tantum sparsis, compactiusculis, candidis non v. vix radiantibus, ex hyphis hyalinis tenerrimis gracilibus compositis; cupulis subiculo subimmersis, turbinatulis, parvulis 200-250 μ. diam. extus pallescentibus hyphis paucis hyalinis radiantibus vestitis, disco succineo-aurantio; sporulis filiformibus 180-200 ≃ 1, continuis, rectis vel vix flexuosulis, hyalinis.

Hab. ad folia Trichiliæ Caatiguæ in silvis subvirgineis prope Guarapi Brasiliæ. — Species pulchella habitu *coccos* pusillos albo-gossypinulos perfecte simulans.

Fam. 3. **Leptostromaceæ** Sacc.

Sect. 1. Hyalosporæ.

LEPTOTHYRIUM Kunze et Schm. — Syll. III. p. 626.

I. *In Dicotyledoneis lignosis.*

1. **Leptothyrium medium** Cooke in Grevillea XIII, pag. 98. — Hy- 6564
pophyllum; peritheciis sparsis, amplis, ½ mm. diam., depressis, circularibus, atro-brunneis; sporulis angustis, utrinque attenuatis, 12-14 ≃ 2.

Hab. in foliis emortuis Quercus, Gomshall Britanniæ. — Var. **castanicola** Cooke loc. cit.: peritheciis duplo minoribus sed fructificatione eadem. In foliis Castaneæ, Darenth Britanniæ.

2. **Leptothyrium castanicolum** Ell. et Ev Journ. Myc. 1888, p. 103. 6565
— Epiphyllum; peritheciis sparsis, scutatis, orbicularibus, nigro-ardosiacis, 115-150 μ. diam., margine æquali vel subcrenato; contextu radiato-fibroso.

Hab. in foliis vivis Castaneæ vescæ, socio *Glœosporio epiphyllo* maculas albas gignente, Newfield, N. J. Amer. bor. — Verisimiliter a *L. Castaneæ* diversum.

3. **Leptothyrium Carpini** Brun. Champ. Saint. p. 340. — Peritheciis 6566
sparsis, amphigenis, punctiformibus, e globoso dein depressis, atris, nitidis, astomis, facile secedentibus; sporulis oblongis, hyalinis, 5-7 ≃ 3, biguttulatis.

Hab. in bracteis fructiferis Carpini Betuli, Saintes Galliæ.

4. **Leptothyrium aristatum** Cooke in Grev. XX, p. 6. — Peritheciis 6567
sparsis, superficialibus, scutatis, orbicularibus, submembranaceis, radiatim cellulosis, atro-brunneis, $^1/_{10}$ mm. diam.; sporulis cylindraceis, valde incurvatis, utrinque obtusis, uno apice setula hyalina, obliqua, sporula æquilonga præditis, hyalinis, 14-15 ≃ 2-3.

Hab. in foliis emortuis Eucalypti, Victoria Australiæ (Mrs. Martin). — Ob sporulas aristatas peculiaris typus.

5. **Leptothyrium Eucalyptorum** Cooke et Mass. Grev. XVIII, p. 7. — 6568
Peritheciis in macula exarida sparsis, scutiformi-applanatis, atris, angulosis, triangularibus v. subquadratis, medio stellato-dehiscentibus; sporulis ovoideis, continuis, hyalinis, 4 ≃ 3.

Hab. in foliis dejectis Eucalypti, Lilydale Victoria Australiæ (Mrs. Martin).

6. **Leptothyrium Liriodendri** Cooke in Grevillea XIV, pag. 90. — Pe- 6569
ritheciis in macula exarida, fusca, sparsis, epiphyllis, disciformibus, nitidis, plano-convexis, atris, minutis; sporulis cylindraceis, curvulis rectisque, tenuibus, hyalinis, 5 ≃ 1.

Hab. in foliis Liriodendri, Aiken S. Car. Americæ borealis (Ravenel).

7. **Leptothyrium Buxi** Pass. in litt. Brun. Liste Sphærops. p, 64. — 6570
Maculis albis vel albidis, semiorbicularibus, marginalibus utraque pagina conspicuis, linea nigra limitatis; peritheciis sparsis, hypophyllis, punctiformibus, nigris, circularibus, applanatis, primo tectis; sporulis globulosis, hyalinis, 2,5–4 μ. diam.

Hab. in foliis Buxi sempervirentis, Saintes Galliæ.

8. **Leptothyrium Berberidis** Cooke et Mass. in Grev. XVI, p. 9. — 6571
Peritheciis amphigenis, minutis, punctiformibus, nigris, sparsis, discoideis; sporulis cylindraceis, utrinque rotundatis, continuis, hyalinis, 8-9 ≃ 1,5–2.

Hab. in foliis aridis Berberidis vulgaris, Oxford Britanniæ (Baxter). — Probabiliter idem est **Leptothyrium Berberidis** Rich. Cat. Champ. Marn. n. 1776: peritheciis hypophyllis hemisphæricis, dein centro collabentibus, nigricantibus; sporulis..... (non descriptis). In foliis emortuis Berberidis vulgaris, Aulnay-l'Aître Marne Galliæ.

9. **Leptothyrium Platanoidis** Pass. in Brun. Champ. nouv. VI, p. 4. — 6572
Maculis irregularibus, subaridis, brunneo-pallidis; peritheciis numerosis, sparsis, hypophyllis, punctiformibus, depressis, brunneis; sporulis bacillaribus, hyalinis, 5–7,5 ≃ 1,5.

Hab. in foliis Aceris platanoidis, Saintes Galliæ.

10. **Leptothyrium Pseudoplatani** Pass. in litt. Brun. Liste Sphærops. p. 54, *Melasmia Perisporium* Pass. Fung. Gall. nov. in Journ. d'Hist. nat. 1885, n. 4, p. 55. — Maculis nullis; peritheciis epiphyllis, subhemisphæricis, apice dein paullulum depressis, atris, subsuperficialibus, nunquam confluentibus; sporulis botuliformibus, rectis vel curvulis, 8-12 × 1½-2, hyalinis. 6573

Hab. in foliis emortuis Aceris Pseudoplatani prope Saintes in Gallia (Brunaud).

11. **Leptothyrium subzonatum** Speg. F. Puigg. n. 431. — Peritheciis hypophyllis, sparsis, superficialibus, scutato-dimidiatis 200-250, astomis, membranaceis, prosenchymatico-radiantibus, zonulatis; sporulis cylindraceis, hyalinis, 4 × 1; basidiis 10-15 × 1. 6574

Hab. ad folia viva Myrtaceæ cujusdam in nemorosis prope Apiahy Brasiliæ.

12. **Leptothyrium zonatum** Speg. F. Puigg. n. 430. — Peritheciis hypophyllis, sparsis, superficialibus, scutato-dimidiatis, 400-600 μ. diam., astomis, membranaceis, contextu prosenchymatico-radiante, zonato; sporulis ellipticis vel ovoideis hyalinis, 4-5 × 2; basidiis concoloribus, 20-25 × 1. 6575

Hab. ad folia viva Myrtaceæ cujusdam in nemorosis prope Apiahy Brasiliæ.

13. **Leptothyrium Panacis** Cooke in Grevillea XIV, p. 129. — Peritheciis gregariis vel sparsis, punctiformibus, scutiformibus, membranaceis, orbicularibus, atro-fuscis; sporulis minutis, cylindraceis, rectis vel leniter curvulis, hyalinis, 7 × 2. 6576

Hab. in pag. super. foliorum emortuorum Panacis arborei in Nova Zelandia.

14. **Leptothyrium Pinastri** Karst. Symb. XX, pag. 96. — Peritheciis amphigenis, scutiformibus, subcircularibus, astomis, nigrescentibus, opacis, exiguis, contextu radiato, ambitu subinde fimbriatulis; sporulis elongatis, rectis, continuis, hyalinis, 5-6 × 1, 6577

Hab. ad folia putrescentia Pini silvestris prope Mustiala Fenniæ.

15. **Leptothyrium Pini-austriacæ** Fautr. in Rev. Myc. 1891, p. 7. — Peritheciis sparsis, amphigenis, adnatis, applanato-umbonatis, 100 μ. diam,; sporulis cylindraceis, rectis, apicibus obtusis et 1-guttatis, 6-8 × 1-1,5. 6578

Hab. in acubus dejectis Pini austriacæ, Morvan, Côte-d'Or Galliæ.

16. **Leptothyrium exiguum** Karst. Sphærops. Fenn. 76. — Peritheciis 6579

sparsis, subinde subseriatis, initio epidermide tectis, forma variis ovalibus elongatis differmibusve, rima longitudinali sæpe flexuosa dehiscentibus, atris, nitidis, 0,3-0,5 mm. long.; sporulis cylindraceis, rectis, eguttulatis, hyalinis, 5-7 ≈ 0,5.

Hab. in foliis languidis Pini Cembræ in horto mustialensi Fenniæ (O. KARSTEN).

17. **Leptothyrium Cycadis** Pass. Diagn. F. N. IV, n. 126. — Maculis 6580
oblongis, exaridis, albicantibus, fusco-rubiginoso-marginatis, interdum pinnam dimidiam et ultra occupantibus; peritheciis punctiformibus, sparsis v. quandoque gregariis, atro-nitidis, minute ostiolatis; contextu membranaceo, fuscidulo, celluloso-radiato; sporulis ovalibus, compressis, continuis, hyalinis, 5-6 ≈ 2,5-3, a latere visis 1,5 μ. cr.

Hab. in foliis Cycadis revolutæ, Parma in horto botanico Ital. bor.

II. *In Dicotyledoneis herbaceis.*

18. **Leptothyrium Pirolæ** Karst. Symb. XIX, pag. 88. — Peritheciis 6581
gregariis vel confertissimis, sæpe confluentibus, subcircularibus, nitidis, cupulato-collapsis, atris, punctiformibus; sporulis elongatis, 2-3 ≈ 0,5.

Hab. in pag. sup. foliorum siccorum Pirolæ umbellatæ, Villnäs prope Mustiala Fenniæ.

19. **Leptothyrium Melampyri** Bäuml. F. Schemn. I, p. 7. — Maculis 6582
nullis vel sordide griseis, irregularibus; peritheciis superficialibus varie dehiscentibus, contextu parenchymatico fuligineo; sporulis cylindraceis, utrinque rotundatis, hyalinis, numerosissimis, 4-5 ≈ 1,5, concatenatis (?); basidiis nullis visis.

Hab. in foliis vivis Melampyri nemorosi, Antal prope Prenzow Hungariæ.

20. **Leptothyrium gentianæcolum** (DC.?) Bäuml. Myc. Not. p. 1, *De-* 6583
pazea (DC.) Fr. S. M. II, p. 531, Sacc. Syll. III, p. 62. — Maculis rotundis vel irregularibus griseis dein brunneis; peritheciis subcutaneo-erumpentibus; 60-100 μ. diam., minute parenchymaticis; sporulis elengatis, utrinque rotundatis, 14-16 ≈ 3, rectis v. curvulis.

Hab. in foliis Gentianæ acaulis prope Innsbruck Tiroliæ transalpinæ.

21. **Leptothyrium Lycopi** Rich. Cat. Champ. Marn. n. 1775. — Pe- 6584
ritheciis applanatis irregularibus nigris; sporulis semilunatis, curvis.

Hab. in caulibus emortuis Lycopi europæi ad fossas et ripas Fion, Marne Galliæ.

22. **Leptothyrium microsporum** Sacc. in Rev. Myc. 1886, p. 22. — Peritheciis epiphyllis, sparsis, applanatis, circulari-subangulosis, 1/2 mm. diam., radiato-contextis, centro pertusis; sporulis allantoideis, perexiguis, 3-4 ≃ 1-1,3. 6585

Hab. in foliis languidis Solani, Guarapi Brasiliæ.

23. **Leptothyrium tataricum** Brun. Champ. Saint. VII, pag. 5. — Peritheciis sparsis, aggregatis vel seriatis, suborbicularibus, discoideis, leviter collabascentibus, nigris, nitidis; sporulis oblongis, hyalinis, 2-guttatis, 6-7 ≃ 2,5. 6586

Hab. in caulibus emortuis Polygoni tatarici in hortis Rochefort Galliæ.

III. *In Monocotyledoneis.*

24. **Leptothyrium decipiens** Berk. Fl. Antarc. II, p. 449, t. 163, f. 3. — Suborbiculare, atrum, nitidum; sporulis tenerrimis, irregulari-subfusiformibus, quandoque curvatis. 6587

Hab. in culmis Rostkoviæ grandifloræ, Falkland Island Amer. austr.

25. **Leptothyrium fuegianum** Speg. F. Fueg. n. 425. — Peritheciis sparsis, atris, scutato-orbicularibus 90-100 μ. diam., tenui-membranaceis; contextu laxe prosenchymatico-reticulato, margine non vel vix denticulato, dilute fuligineo; ostiolo latiusculo, impresso; sporulis ellipticis, utrinque leniter rotundatis, 2-3 ≃ 0,8-1, continuis, hyalinis. 6588

Hab. ad culmos emortuos Rostkoviæ grandifloræ in Fuegia prope Chair island Brasiliæ. — Statum spermogonicum *Microthyrii fuegiani* sistit.

26. **Leptothyrium culmigenum** Sacc. et Brun. Camp. Saint. p. 340. — Peritheciis sparsis vel adproximatis, discoideis, convexulis, nigris, subastomis; sporulis ovato-oblongis, hyalinis, 3 ≃ 1,5. 6589

Hab. in culmis Bambusæ arundinaceæ, Saintes Galliæ.

27. **Leptothyrium Angelæ** Sacc. in Rev. Myc. 1884, tab. LV, fig. 5 bis. — Peritheciis superficialibus, gregariis, planis, subcircularibus radiato-contextis margine fimbriatis, 1/4-1/2 mm. diam.; sporulis fusoideis, minutis, utrinque acutiusculis, 7-8 ≃ 1, hyalinis. 6590

Hab. in culmo Bambusæ mitis cult. in Gallia meridionali (Angèle Roumeguère).

28. **Leptothyrium crastophilum** Bomm. Rouss. Sacc. Contr. Myc. Belg. 6591

IV, p. 290. — Peritheciis sparsis, scutellato-applanatis, orbicularibus, opace nigro-brunneis, 210-250 μ. diam., demum collabascentibus, contextu radiato; sporulis cylindraceis, vulgo rectis, hyalinis, utrinque 1-guttatis, 9-10 ≃ 2.

Hab. in culmis et foliis Calamagrostidis arundinaceæ, Poix Galliæ.

29. **Leptothyrium juncinum** Cooke et Harkn. in Grev. XIII, p. 113. 6592
— Gregarium; peritheciis scutiformibus atris, opacis, planis demum concavis, orbicularibus; sporulis cylindraceis, obtusis, continuis, hyalino-olivaceis, basidiis brevissimis suffultis.

Hab. in Junco in California (HARKNESS).

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30. **Leptothyrium magnum** Speg. Fl. Guar. nonn. n. 140. — Perithe- 6593
ciis (stromatibus?) majusculis superficialibus, dimidiato-orbicularibus, tenui-membranaceis, prosenchymatico-radiantibus, atris, glabris, centro 1-3-colliculoso-loculigeris, 0,5-3 mm. diam., loculis albo-farctis, 60-80 μ. diam.; sporulis elliptico-cylindraceis utrinque obtusulis, 8-10 ≃ 3, subguttulatis, hyalinis.

Hab. in foliis vivis Nectandræ speciei in silvis Caa-guazù Brasiliæ. — Species pulcra, novi generis facillime typus, statum sporuligerum *Polystomellæ* v. *Hysterostomellæ* sistens.

31. **Leptothyrium ampullulipedum** Speg. Fl. Guar. nonn. n. 141. — 6594
Characteribus externis simillimum *Asterinæ ampullulipedi*, cujus est st. sporuliger; sporulis ellipsoideo-cylindraceis, utrinque subtruncato-rotundatis, 6 ≃ 3, hyalinis.

Hab. ad folia Laurineæ cujusdam prope Villarica Brasiliæ. — *Lept. punctulatum* Sacc. in Roum. F. G. n. 1213 ex errore typ. sub nom. *L. pulchelli* prostat.

PIGOTTIA Berk. et Br. — Syll. III, p. 636.

1. **Pigottia atro-nitens** Oud. — Syll. III, p. 637 — forma **Gleditschiæ** 6595
Pass. in Brun. Champ. Saint. V, p. 7. — Sporulis exiguis, oblongis, ex hyalino flavidis; basidiis filiformibus, hyalinis.

Hab. in ramis emortuis Gleditschiæ Triacanthi, Saintes Galliæ.

2. **Pigottia substellata** Cooke Grev. XX, p. 6. — Hypophylla; pe- 6596
ritheciis in cæspitulos parvos, 1-2 mm. diam., suborbiculares, stellatos, nigros confluentibus, applanatis, interdum distinctis, maculis majusculis, fulvis insidentibus; sporulis cylindraceis, rectis, utrinque obtusis, 8 × 1, hyalinis, basidiis longioribus, simplicibus fultis.

Hab. in foliis Eucalypti, Victoria Australiæ (MARTIN).

3. **Pigottia Gneti** Oud. Microm. I, p. 6. — Peritheciis amphigenis, superficialibus, nigris, orbiculari-ellipticis, 0,5 mm. diam. non excedentibus, depressis, dimidiatis, astomis, tenui-parenchymaticis; sporulis oblongis v. subcylindraceis, hyalinis, granulosis, continuis, 11-19 ≃ 2,5-3,5; basidiis cylindricis, acutatis, sporulam subæquantibus, ex pariete interiore perithecii oriundis. 6597

Hab. in foliis Gneti Gnomonis culti in horto bot. Amsterdam Nederlandiæ (PLEMPER VAN BALEN).

ERIOTHYRIUM Speg. F. Fueg. n. 426 (Etym. *erion* lana et *thyreos* scutum). — Perithecia minuta, scutato-dimidiata, matrice adnata, ostiolata, subiculo effuso, tenuissimo, fumagineo cincta. Sporulæ hyalinæ, ovato-oblongæ, continuæ.

1. **Eriothyrium dubiosum** Speg. F. Fueg. n. 426. — Peritheciis sparsis, atris, minutissimis, scutato-dimidiatis, 80 μ. diam., tenuissime membranaceis, contextu pellucido, subprosenchymatico, ostiolo lato, 20 μ. diam., impresso pertusis, subiculo late effuso, nigro-olivaceo, submembranaceo, ex hyphis crebre toruloso-articulatis, articulis subcuboideis, 3-10 ≃ 3-4, grosse 1-guttulatis, efformato cinctis; sporulis ellipticis v. ovoideis, utrinque obtusiusculis, 3-4 ≃ 1, rectis v. curvulis, hyalinis. 6598

Hab. ad folia viva v. languida Pernettiæ mucronatæ in Staten island Brasiliæ.

TRICHOPELTULUM Speg. F. Puigg. n. 342 (Etym. *thrix* pilus et *pelte* scutum). — Mycelium e fibris pro ratione majusculis, membranaceo-applanatis, vittiformibus, non costatis, dendritico-ramulosis, prosenchymatico-contextis efformatum. Perithecia superficialia v. fibris tecta, dimidiato-scutata, parvula, ostiolata. Sporulæ continuæ, hyalinæ. — Status sporulifer *Trichopeltidis*.

1. **Trichopeltulum pulchellum** Speg. F. Puigg. n. 432. — Vittis mycelii membranaceo-pellucidis, prosenchymaticis, olivaceis, laxe ramoso-intricatis, longiusculis atque latiusculis; peritheciis pusillis, ostiolo rotundo perforatis; sporulis hyalinis, minutissimis, utrinque subtruncatis, continuis, 4-6 ≃ 1. 6599

Hab. ad folia viva Myrtacearum in dumetis prope Apiahy Brasiliæ.

MELASMIA Lév. — Syll. III, p. 637.

1. **Melasmia Empetri** Magn. in Bericht. Deut. bot. Gesell. 1885, p. 104. 6600
— Pustulis atris, subcutaneis, bullato-prominulis e peritheciis paucis, confluentibus formatis, supra inæqualiter rimosis; sporulis oblongo-cylindraceis, utrinque rotundatis, medio leniter coarctatis, 12-17 ≃ 3,5-4,8, intus granulosis, hyalinis; basidiis bacillaribus, simplicibus, sporulâ subquadruplo longioribus, fasciculatis.

Hab. in ramulis vivis junioribus Empetri nigri in insula Wollin Borussiæ.

2. **Melasmia pulchella** Speg. Fl. Guar. noun. n. 145. — Maculis nullis; 6601
stromatibus minutis epiphyllis, sparsis, 1-locularibus convexo-prominulis, 0,5 mm. diam., atro-nitidulis, intus albo-farctis; sporulis ellipsoideo-subovoideis, obtusulis granuloso-farctis, hyalinis, 9-11 ≃ 4-5.

Hab. in foliis vivis Eugeniæ speciei in vallecula Yacan-guazù inter Paraguarì et Valenzuela Brasiliæ.

3. **Melasmia Eucalypti** Cooke et Mass. Grev. XVI, p. 25. — Maculis 6602
orbicularibus v. confluentibus, 2 mm. diam., atris; peritheciis paucis, subgregariis, ellipticis lanceolatisve, rima dehiscentibus, dein hysteriiformibus; sporulis lanceolatis, utrinque acutis, continuis, hyalinis, 25 ≃ 6; basidiis subelongatis, simplicibus, hyalinis.

Hab. in foliis emortuis Eucalypti, Brisbane Australiæ (Bailey).

4. **Melasmia hypophylla** (B. et Rav.) Sacc. *Leptostroma* B. et Rav. 6603
F. Carol. III, n. 45, *Melasmia Gleditschiæ* Ell. et Ev. Journ. Mycol. 1888, pag. 45. — Peritheciis hypophyllis, applanatis, rugulosis, 0,5-1 mm. diam., dense sparsis, maculam fusco-brunneam occupantibus; sporulis oblongis, hyalinis, 3-5 ≃ 1-1,5, continuis; basidiis dense fasciculatis, 10-12 μ. long.

Hab. in foliis vivis Gleditschiæ Triacanthi, Concordia Mo., Louisiana, Manhattan Ka. Amer. bor. (Demétrio, Langlois, Kellerman, Swingle) Carolina (Ravenel).

5. **Melasmia Escalloniæ** Speg. F. Fueg. n. 429. — Maculis nullis; 6604
peritheciis sparsis, epiphyllis, innatis, atris, subnitentibus, orbicularibus, minutissimis, 180-250 μ. diam., in vivo prominulis, in sicco collabascenti-rugulosis, coriacellis, contextu indistincto; sporulis globulosis, 4-5 μ. diam., granuloso-farctis, hyalinis.

Hab. ad folia dejecta putrescentia Escalloniæ serratæ in silvis pr. Shammacus Fuegiæ.

6. **Melasmia antarctica** Speg. F. Fueg. n. 428. — Maculis nullis; peritheciis epiphyllis, innatis, atris, nitentibus, orbicularibus, 0,8-1,2 mm. diam., in vivo subhemisphærico-prominulis, in sicco cupulato-collabescentibus, sparsis v. rarius 1-2-aggregatis, coriaceis, contextu indistincto aterrimo; sporulis cylindraceis v. ellipticis, utrinque rotundatis v. truncatis, 3-4 ≃ 1, ac minute 1-guttulatis, hyalinis v. subchlorinis. 6605

Hab. ad folia viva Fagi antarcticæ var. sublobatæ in montanis prope Port Cook in Staten island Fuegiæ. — An potius *Placosphæria?*

LEPTOSTROMA Fr. — Syll. III, p. 639.

1. **Leptostroma Sequoiæ** Cooke et Hark. in Grevillea XIII, p. 113. — Gregarium, superficiale, innatum, hysteriiforme, atro-fuscum, nitidum, siccitate centro collapsum; sporulis sublanceolatis, curvatis, continuis, hyalinis, 16 ≃ 3. 6606

Hab. in ramulis Sequojæ in California (Harkness).

2. **Leptostroma Punicæ** Pass. in Journ. d'Hist. Bord. p. 136, Brunaud Liste Sphærops. pag. 85. — Peritheciis lineari-oblongis, nigris, gregariis, primo tectis, dein epidermide secessa liberis; sporulis fusoideis, 5-7 ≃ 1,5, hyalinis; basidiis filiformibus, plus minus longis. 6607

Hab. in ramulis emortuis Punicæ Granati, Saintes Galliæ.

3. **Leptostroma Ludovicianum** P. Har. Journ. de Bot. 1891, p. 172. — Peritheciis innatis, atris, oblongis, lanceolatis linearibusve, interdum hysteriiformibus, rectis, fibris ligni circumdatis, 0,5-1 mm. long., 0,2-0,5 mm. lat.; sporulis ovato-oblongis, obtusis v. subfusoideis, obscure guttatis, hyalinis, 8-10 ≃ 2,5-3,5; basidiis filiformibus. 25-40 ≃ 1-1,5. 6608

Hab. ad ramos et truncos gelu necatos Fici Caricæ, Méry-sur-Seine, Aube Galliæ.

4. **Leptostroma herbarum** (Fr.) Link. — Syll. III, pag. 645. — Var. **spiræinum** Sacc. et Br. Fl. crypt. Aub. p. 416. — Sporulis oblongis, obtusissimis, 2-guttatis, 7-8 ≃ 3,5-4 (hinc quam in typo paullo crassioribus). 6609

Hab. in caulibus siccis Spirææ Ulmariæ, Villechétif, Aube Galliæ.

5. **Leptostroma Virgaureæ** Br. et Har. in Rev. Myc. 1890 Oct. — Peritheciis subepidermicis, dein superficialibus, primo punctiformibus, nigris, nitentibus, dein depressis, sulcatis, sæpe confluenti- 6610

bus et series irregulares efformantibus, $^1/_4$-$^1/_3$ mm. diam.; sporulis incurvis, falcatis, utrinque acutis, simplicibus, hyalinis, 8-10 ≃ 2-2,5.

Hab. in caule arido Solidaginis (Virgaureæ) prope Clermont-Ferrand Galliæ (R. Héribaut).

6. **Leptostroma Luzulæ** Lib. Crypt. I, n. 75 (1830) Sacc. F. Ard. n. 198, Syll. III, p. 644. — Perithecia facile secedentia, contextu minutissime celluloso; sporulæ fusoideæ, minutissimæ, 5 ≃ 1, rectæ. In foliis Luzulæ maximæ in Arduennis.

7. **Leptostroma bambusinum** Delacr. Bull. Soc. Myc. 1890, p. IX. — 6611
Peritheciis hysterioideis, 1-1,5 mm. long., 0,5-1 mm. lat., initio epidermide fissa velatis, extus atris, intus stromatice albidis, postremo rima longitudinali dehiscentibus; sporulis bacillaribus, continuis, hyalinis, 13 ≃ 1, curvulis v. rectis.

Hab. in culmis Bambusæ, Tonkin Sinarum.

8. **Leptostroma maculans** Lib. Crypt. IV, n. 375 (1837), Sacc. F. 6612
Ardenn. n. 197. — Maculis minutis, oblongis, confluendo elongatis, e fibrillis radiantibus ortis, nigris; peritheciis minutis nitidis, atris, subrotundo-elongatis, poro subrimoso dehiscentibus: sporulis . . . . non visis.

Hab. in culmis Secalis in Arduennis. — Species, ignota fructificatione, omnino dubia.

LABRELLA Fr. — Syll. III, p. 647.

1. **Labrella arctica** Fuckel in Heuglin Reis. Nordpolarmeer vol. III 6613
et Oud. Contr. Myc. Now. Seml. p. 5. — Peritheciis discoideis, punctiformibus, minutis, nigris, orbicularibus seu oblongis, planis; sporulis cylindraceis, continuis, rectis, utrinque obtusis, hyalinis, 12-14 ≃ 4.

Hab. in foliis siccis Potentillæ Fragariastri in insula Nowaja Semlja.

2. **Labrella Heraclei** (Lib.) Sacc. Syll. III, p. 648, *Cheilaria Heraclei* Lib. Crypt. III, n. 254 (1834). — Sporulæ fusoideæ, curvulæ, 28-32 ≃ 5-6 binucleatæ spurieque 1-septatæ, hyalinæ. Ad caules Heraclei Sphondylii siccos in Arduennis.

3. **Labrella? Agrostidis** (Lib.) Sacc. F. Ard. n. 195, *Cheilaria Agro-* 6614
stidis Lib. Crypt. I, n. 63 (1830). — Maculis fusco-albescentibus aut nullis; peritheciis immersis, utrinque prominulis, ovatis elongatisve, atris, rima longitudinali dehiscentibus; cirris albis; sporulis fusoideis, biguttatis (Lib.).

Hab. in foliis Agrostidis vulgaris in Arduennis. — Sporulas ipse non vidi.

SACIDIUM Nees. — Syll. III, p. 649.

1. **Sacidium Camelliæ** Cooke et Mass. Grev. XVI, p. 3. — Peritheciis sparsis, superficialibus, dimidiatis, atris, opacis, magnitudine variis, plerumque minutis; sporulis subglobosis, continuis, pallide fuscis, 10 ≈ 8. 6615

   Hab. in foliis languidis Camelliæ, Melbourne Australiæ (F. Campbell).

2. **Sacidium Eucalypti** Cooke et Mass. Grev. XVI, p. 75. — Amphigenum; peritheciis gregariis, erumpentibus, minimis, applanatis, atris, mox superne deficientibus; sporulis globosis, continuis, hyalinis, 5-6 μ. diam. 6616

   Hab. in foliis emortuis Eucalypti Globuli, Melbourne Australiæ (Reader).

3. **Sacidium Ulmi-gallæ** Kell. et Sw. Journ. Mycol. 1889, p. 72. — Maculis nullis; pseudoperitheciis in gallarum superficie areas indefinite atratas occupantibus, subgregariis, parcis, nigris v. nigricantibus, ovatis, ellipticis vel irregulariter linearibus, 0,5-2 ≈ 0,2-0,5 mm., inæqualiter inflatulis, dein applanatis et corrugatis, primo rimosis dein late dehiscentibus, contextu spurie celluloso; sporulis ovato-clavatis vel subteretibus, utrinque obtusis, 7,5-11 ≈ 3-5, minute guttulatis; basidiis tereti-clavatis, continuis v. obsolete septatis, stipatis, 15-25 ≈ 2-4. 6617

   Hab. in gallis ad pag. sup. foliorum Ulmi americanæ, Manhattan Kans. Amer. bor.

4. **Sacidium lignorum** Peck 42 Rep. p. 30. — Peritheciis sparsis v. aggregatis, numerosis, tenui-membranaceis, clypeatis, astomis, 4-5-angulis, nigris, facile secedentibus; sporulis minutis, oblongis, hyalinis v. dilute coloratis, 4 ≈ 2. 6618

   Hab. in fundo dolii in cella vinaria, Flatbush Long Island Am. bor. (J. L. Zabriskie).

5. **Sacidium depazeoides** Cooke Grev. XIX, p. 7. — Peritheciis in maculis suborbicularibus vel confluentibus, ochraceis insidentibus, membranaceis, demum sursum dissilientibus; sporulis globosis, subglobosisve, hyalinis, 12 μ. diam. 6619

   Hab. in foliis Aspidopterygis caudatæ in India.

6. **Sacidium Epimedii** Cooke Grev. XV, p. 116. — Peritheciis spar- 6620

sis, hypophyllis, innatis, convexis, dein supra pertusis, tenuissimis; sporulis subglobosis, continuis, hyalinis, circ. 4 μ. diam.

Hab. in foliis languidis Epimedii alpini, Kew Britanniæ.

7. **Sacidium? brasiliense** Speg. F. Puigg. n. 433. — Maculis nullis; peritheciis hemisphæricis, minutis, 250–300 μ. diam., atris, superficialibus, anhistis, pellucidis, astomis; sporulis e globoso ellipticis, continuis, e chlorino hyalinis, 8 ≃ 6-7. 6621

Hab. ad folia Polygoni sp. cujusdam in uliginosis pr. Apiahy Brasiliæ. — *Sacidii* species hæc et aliæ perplurimæ (*S. Spegazzinianum* Sacc., *S. venetum* Speg., *S. Ulmariæ* Sacc. et Roum., *S. chartarum* Sacc. et Penz.), teste Speg. loc. cit., sunt sine ullo dubio delendæ, nam sporangia *Pilobilorum* expulsa tantum sistunt. «Probabile in nonnullis quidem videtur sed ulterius inquirendum».

8. **Sacidium Polygonati** Ell. et Mart. in Amer. Nat. 1884, p. 1264. — Peritheciis applanatis, globulosis v. ellipsoideis, 200–230 μ. diam., astomis, contextu subradiatim parenchymatico, compacto; sporulis subglobosis v. e pressione subangulosis, 5-7 μ. diam. 6622

Hab. ad caules emortuos Polygonati gigantei, New Jersey Amer. bor.

9. **Sacidium Desmazierii** Mont. in Desm. Pl. crypt. III, n. 351 (non vidi).

TRICHOPHILA Oudemans Hedw. 1889, n. 6 (Etym. *thrix* pilus et *philos* amicus). — Stroma applanatum, effusum, piceum, intus p. m. distincte plurilocellatum, pallidius, basi propria destitutum. Sporulæ oblongæ, continuæ, hyalinæ, basidiis brevissimis. — *Placosphæriæ* analogon.

1. **Trichophila Myrmecophagæ** Oudem. loc. cit. — Stromatibus $^1/_3$-$^1/_2$ mm. long., nunc rotundis, tunc ovalibus, oblongis v. lineari-oblongis, sparsis v. in series dispositis, versus medium altioribus, versus ambitum declivibus; loculis seriatis, monostichis, 60 ≃ 45, tandem poro minimo centrali dehiscentibus; sporulis in basidiis brevissimis acrogenis, oblongis, 14-16 ≃ 4, pro varia ætate aut protoplasmate granuloso aut simul guttulis 1-3 repletis. 6623

Hab. in pilis Myrmecophagæ jubatæ, Amsterdam Nederlandiæ (Max Weber).

Sect. 2. Phæosporæ.

ASTEROSTOMELLA Speg. Guar. I, p. 151 (Etym. *aster* et *stoma*). —

Perithecia dimidiato-scutata, subiculo fumagineo insidentia, radiato-dehiscentia. Sporulæ continuæ, ovoideæ, fuligineæ. — Verisimiliter sistit spermogonium *Seynesiæ*, *Asterinæ* et *Micropeltidis*.

1. **Asterostomella paraguayensis** Speg. Guar. I, p. 151. — Maculis 6624
nullis, subiculo amphigeno, laxe radiante, plagulas orbiculares, 2-3 mm. diam., brunneas, sæpe confluentes formantibus; hyphis repentibus, dense septatis, laxe ramoso-intricatis, 2,5-3,5 μ. cr.; perithecis orbicularibus, 50-90 μ. diam., atris, glabris, contextu parenchymatico-radiante, pellucido, olivaceo-fuligineo, margine plus minus fimbriatulo; sporulis ovoideis, sæpe 1-guttatis, 14-20 ≃ 8-14, fuligineis; basidiis brevibus, hyalinis, mox diffluentibus.

Hab. ad folia viva Cestri, Rutacearum etc. in tota regione paraguayensi.

2. **Asterostomella subreticulata** Speg. Fl. Guar. nonn. n. 143. — Facie 6625
omnino simillima *Asterinæ subreticulatæ* (Syll. IX, p. 390) cujus est spermogonium; sporulis piriformi-ovoideis, continuis vel binucleatis, 20-24 ≃ 14-16, fuligineis.

Hab. in foliis vivis Cestri pubescentis in silvis pr. Guarapì et Villarica Brasiliæ. — Var. **microspora**. Cfr. Speg. loc. cit.: sporulis conspicue minoribus, 16-20 ≃ 10-12. In foliis Cestri cujusdam, ibidem.

3. **Asterostomella cristata** Speg. Fl. Guar. nonn. n. 142. — Cha- 6626
racteribus externis simillima *Asterinæ cristatæ* (Syll. IX, p. 391) cujus est spermogonium; sporulis ovoideis, continuis, rarius, binucleatis, 20-24 ≃ 12-14, fuligineis.

Hab. in foliis vivis vel languidis Rutaceæ cujusdam in silva subvirginea Caa-guazù Brasiliæ.

4. **Asterostomella cingulata** Speg. Fl. Guar. nonn. n. 144. — Sper- 6627
mogonium *Micropeltidis Balansæ* Speg. loc. cit. n. 127, quacum characteribus externis perfecte congruit; peritheciis tamen paullo minoribus, 80-90 μ. diam.; sporulis ovoideis, 12 ≃ 6, fere opace fuligineis, ad tertium superum cingulo transverso, fere hyalino ornatis.

Hab. in foliis vivis Euphorbiaceæ (Sebastianæ?) cujusdam in dumetis silvæ Caa-guazù Brasiliæ.

5. **Asterostomella paraffinis** Speg. F. Puigg. n. 434. — Subiculo et pe- 6628
ritheciis ut in statu ascophoro (*Asterina paraffinis* Sp., Syll. IX, p. 392); sporulis obovatis, continuis, fuligineis, 12-15 ≃ 8-10, dense constipatis.

Hab. ad folia viva Asclepiadeæ cujusdam in silvis prope Apiahy Brasiliæ. — Species statum spermogonicum *Asterinæ peraffinis* sistens.

LASMENIA Speg. Guar. I, p. 152 (Etym. metathesis *Melasmiæ*). — Perithecia *Melasmiæ* dimidiata, plana subastoma v. rimosa, membranacea, atra, stromate effuso nigricante sæpius phyllogeno innata. Sporulæ continuæ fuligineæ v. aliter coloratæ.

1. **Lasmenia Balansæ** Speg. Guar. I, p. 152. — Stromatibus hypophyllis, minutis, 0,3-0,6 mm. diam., irregularibus, subepidermicis, densiuscule sparsis, numquam confluentibus, atris, levibus, glabris, loculis uno vel binis in quoque stromate inæqualibus, albo-farctis; sporulis ellipticis, utrinque obtusis, 15-20 ≃ 8-9 non v. grosse 1-guttulatis, fuligineis, muco subfilamentoso immerso-obvallatis. 6629

   Hab. ad folia viva Eugeniæ speciei, Cerro Hu pr. Paraguari.

2. **Lasmenia guaranitica** Speg. Guar. I, pag. 152. — Maculis hypophyllis suborbicularibus, 2-3 mm. diam., fulvellis, centro nigropapillatis, stromatibus epiphyllis, atris, pulvinatis, 1-3 mm. diam., coriacellis, e levi undulatis; loculis paucis, laxis, hemisphærico-angulosis, 150-200 μ. diam., nucleo-fusco farctis; sporulis discoideis, 5-7 μ. diam., e latere compressis, 2-2,5 μ. cr. subinde concavisculis, grosse 1-guttatis, fuligineis, basi acutatis et caudicula (basidii apice) hyalina auctis; basidiis conoideo-elongatis, 7-8 ≃ 1, hyalinis. 6630

   Hab. ad folia viva Achatocarpi speciei in silvis pr. Paraguari Brasiliæ.

3. **Lasmenia brasiliensis** Speg. F. Puigg. n. 435. — Stromatibus et loculis ut in statu ascophoro (*Phyllachora brasiliensis* Speg., Syll. II, p. 559 et IX, p. 1011); sporulis discoideis, 1-guttulatis, fuligineis, 6-8 μ. diam., subtus sæpe apiculatis. 6631

   Hab. ad folia viva Myrtaceæ v. Xanthoxyleæ cujusdam in silvis pr. Apiahy Brasiliæ. — Species statum sporuliferum *Phyllachoræ brasiliensis* sistens.

4. **Lasmenia subcoccodes** Speg. F. Puigg. n. 436. — Stromatibus ut in statu ascophoro (*Roussoella subcoccodes* Speg., Syll. IX, p 1045); sporulis discoideis, fuligineis. 6632

   Hab. ad folia viva Leguminosæ scandentis cujusdam in dumetis pr. Apiahy Brasiliæ. — Species statum sporuliferum *Roussoellæ subcoccodis* sistens.

Sect. 3. Didymosporæ.

LEPTOTHYRELLA Sacc. in Rev. Myc. 1885 (Etym. a *Leptothyrio* cui affinis), *Asterinula* Ell. et Ev. Journ. Myc. 1889, p. 152. — Perithecia *Leptothyrii,* dimidiata, radiato-contexta. Sporulæ fusoideæ vel oblongæ, 1-septatæ, hyalinæ.

1. **Leptothyrella Mougeotiana** Sacc. et Roum. in Rev. Myc. 1885, t. LV, f. 5. — Peritheciis scutatis, superficialibus, $^1/_4$ mm. diam., ambitu circularibus, fimbriatulis, centro dein irregulariter pertusis, atris; sporulis fusoideis, sæpe inæquilateralibus, 1-septatis, non constrictis, 22-28 ≃ 4, hyalinis; basidiis fasciculatis, furcatis, hyalinis, 20-25 ≈ 3. 6633

   Hab. in foliis subvivis Pini in Pyrenæis et in Vogesis. — Ut videtur, commixtæ sporulæ allantoideæ, 5-6 ≈ 1, hyalinæ.

2. **Leptothyrella Langloisii** (Ell. et Ev.) Sacc., *Asterinula Langloisii* Ell. et Ev. Journ. Myc. 1889, pag. 152. — Peritheciis sparsis vel gregariis, dimidiatis, radiato-cellulosis, pertusis, 100-112 μ. diam., plerumque mycelio brunneo breve fimbriatis; sporulis oblongis v. obovato-oblongis, 2-nucleatis, dein 1-septatis, hyalinis, 18-22 ≈ 7-8, utrinque rotundato-obtusis. 6634

   Hab. in foliis vivis Magnoliæ grandifloræ, Louisiana Amer. bor. (Langlois). — Maculæ foliorum obsoletæ. *Asterinæ,* ut videtur, spermogonium.

DIPLOPELTIS Pass. Diagn. F. N. IV, p. 13 (Etym. *diploos* duplex [sporula] et *pelte* scutum [perithecium]). — Perithecia dimidiato-scutata, parenchymatico-radiosa, centro umbonata, pertusa, sporulæ didymæ fuscæ, — Est quasi *Leptothyrella* phæodidyma.

1. **Diplopeltis Spartii** Passer. Diagn. F. N. IV, p. 14. — Peritheciis crebre sparsis vel subgregariis, minutis, scutiformibus, atris, opacis, umbone nitidulo, margine erosulis; sporulis subellipticis, medio septatis, non vel leniter constrictis, fuscis, 8-10 ≃ 5. 6635

   Hab. in ramulis decorticatis et dejectis Spartii juncei, Vigheffio prope Parmam Ital. bor. — Status pycnidicus *Seynesiæ Caronæ.*

Sect. 4. Phragmosporæ.

DISCOSIA Lib. — Syll. III. p. 653.

1. **Discosia ignobilis** Fautr. Rev. Myc. 1890, pag. 47. — Peritheciis 6636

hypophyllis sparsis vel latiuscule gregariis, disciformibus, nitentibus, nigris, punctiformibus; sporulis cylindraceis, rectis, 3-septatis, ad septa non constrictis, hyalinis, 19–26 × 2,5–3,5 μ., infra apices setula sporulam dimidiam æquante ornatis.

Hab. in foliis putrescentibus Platani orientalis, Noidan Galliæ (F. FAUTREY).

2. **Discosia Theæ** Cav. Mat. Lomb. p. 20, t. II, f. 2. — Peritheciis 6637
sparsis, superficialibus, applanatis, nigro-opacis, rugulosis, ostiolo prominulo pertusis; sporulis cylindraceis, leviter curvulis, utrinque obtusis et oblique 1-ciliatis, 3-septatis, loculis mediis dilute chlorinis, extimis hyalinis, 18–20 × 2-3, setis 6-8 μ. longis.

Hab. in foliis languidis Theæ viridis in horto botanico Pavia Ital. bor. — « An satis diversa a *D. Artocreate*? ».

3. **Discosia virginiana** Thüm. M. U. N. 1985. — Peritheciis nume- 6638
rosis, dense gregariis, interdum confluentibus, angulatis vel oblongis, applanatis, subdisciformibus, opace nigris, inordinate dispositis; sporulis fusoideis, utrinque rotundatis, arcuatis, 3-septatis, utrinque setulâ tenuissimâ 10 μ. long. ornatis, pallidissime chlorinis vel achrois, 15–28 × 2-3.

Hab. in ramulis et foliis emortuis Juniperi virginianæ, Newfield N. J. Amer. bor. (ELLIS).

CYSTOTHYRIUM Speg. F. Fueg. n. 430 (Etym. *cystis* vesica et *thyreos* scutum), — Perithecia *Melasmiæ* vel *Labrellæ*. Sporulæ triseptatæ hyalinæ. — Ab affini *Discosia* differt peritheciorum forma et sporulis muticis.

1. **Cystothyrium magellanicum** Speg. F. Fueg. n. 430. — Maculis nul- 6639
lis; peritheciis sparsis, epiphyllis, innatis, atris, subnitentibus, orbicularibus, minutissimis, 150–180 μ. diam., in vivo prominulis, in sicco subcollabascenti-rugulosis, membranaceis; contextu parenchymatico, fusco; sporulis ellipticis, utrinque obtusiusculis, 20 × 5, rectis vel inæquilateralibus, 3-septatis, non constrictis, hyalinis, loculis sæpe per ætatem subsecedentibus.

Hab. ad folia languida Ribis magellanici in silvis prope Hope harbour in Clarence island Fuegiæ.

2. **Cystothyrium sphærelloides** Speg. F. Fueg. n. 431. — Maculis nul- 6640
lis v. toto folio expallente; peritheciis hypophyllis, sparsis v. hinc inde 2-4-aggregatis, innatis, orbicularibus, 300–400 μ. diam., atris, in vivo convexulis, in sicco ruguloso-collabascentibus, rimose dehiscentibus, glabris, coriacellis; contextu indistincto, fuligineo; spo-

rulis elliptico-cylindraceis, utrinque obtusiusculis, 20-25 = 4, rectis vel curvulis, 3-septatis, non constrictis, hyalinis.

Hab. ad folia emortua adhuc pendula Fagi obliquæ in silvis prope Ushuvaia Fuegiæ.

Sect. 5. Scolecosporæ.

ACTINOTHYRIUM Kunze. — Syll. III, p. 658.

1. **Actinothyrium Holoschœni** Passer. Diagn. F. N. IV, p. 14. — Peritheciis sparsis v. laxe gregariis, orbiculato-scutiformibus, applanatis, atris; contextu fibroso, medio compacto, margine breviter radiante, fibris apice vix solutis; sporulis ut in *Actinothyrio graminis*. 6641

Hab. in culmis siccis Scirpi Holoschœni, S. Andrea del Taro in agro parmensi Ital. bor.

2. **Actinothyrium paraguayense** Speg. F. Guar. II, n. 177. — Maculis amphigenis, parvulis, 1-3 mm. diam., elliptico-orbicularibus, albis vel pallescenti-albis, determinatis, sæpius areola majuscula, fuscescente cinctis; peritheciis in maculis amphigenis sparsis v. dense aggregatis, innato-superficialibus, hemisphæricis, dimidiato-scutatis, 80-90 μ. diam., tenui-membranaceis, atris; contextu parenchymatico-radiante, fumoso-fuligineo; ostiolo parùm perspicuo, impresso; sporulis cylindraceo-fusoideis, utrinque acutissimis, 15-20 = 1,5-2, falcatis, continuis, hyalinis. 6642

Hab. ad folia languida Pothi pinnatifidæ in silvis prope Guarapi Brasiliæ.

MELOPHIA Sacc. Syll. III, p. 658.

1. **Melophia Victoriæ** Sacc. *Melophia phyllachoroidea* Cooke in Grev. XIX, p. 91 (1891), nec Speg. — Peritheciis sparsis, amphigenis, convexis, basi applanatis et scutatis, nigris, 0,5-1 mm. diam., intus albis, æqualibus, levibus; sporulis filiformibus, curvis vel flexuosis, hyalinis, 25 μ. long. 6643

Hab. in foliis Leptospermi levigati, Victoria Australiæ (Martin).

2. **Melophia nigrimacula** Speg. Guar. I, p. 153. — Maculis epiphyllis, sparsis, majusculis, 3-6 mm. diam., subcircularibus, subdefinitis, centro nigro, zona fulva fuscescenti-marginata cincto; stromatibus centro maculæ insidenti-innatis, non pulvinatis, vix rugosis, 2-4 mm. diam., coriacellis; contextu indistincto, fusco-olivaceo; loculis 6644

sparsis, minutis, subglobosis, 70-80 μ. diam., albo-farctis; sporulis fusoideis vel acicularibus, utrinque acutis, 16-18 ≃ 1, hyalinis.

Hab. in foliis coriaceis vivis Myrtaceæ speciei in silva Caaguazù Brasiliæ.

3. **Melophia nitens** Speg. Guar. I, p. 154. — Maculis nullis; stromatibus epiphyllis subcarbonaceis, atris, nitentibus, sparsis, minutissimis, 0,3-0,5 mm. diam.; loculis 1-2 in quoque stromate subglobosis, 150-200 μ. diam., nucleo albo; sporulis lineari-subfusoideis, falcatis, utrinque acutis, 12-15 ≃ 1, hyalinis. 6645

Hab. ad folia viva Eugeniæ speciei in silva subvirginea, Caaguazù Brasiliæ.

4. **Melophia macrospora** Speg. F. Guar. nonn. n. 149. — Stromatibus amphigenis effuso-innatis, atris, ad epiphyllum magis conspicuis, plurilocularibus, loculis minutissimis difformibus reticulato-junctis, albo-farctis; sporulis filiformibus, tenuibus, apice altero acuto, altero, obtusulo, 30-40 ≃ 1-1,5, falcatis vel hamatis, subcontinuis, hyalinis, subinde apice bi-trifurcatis. 6646

Hab. in foliis vivis vel languidis Eugeniæ speciei pr. Paraguarì et Yacan-guazù Brasiliæ.

5. **Melophia superba** Speg. F. Guar. nonn. n. 150. — Stromatibus amphigenis, orbiculari-difformibus, superne nigris, decorticatis, concentrice rugulosis, 1-5 mm. diam., loculis numerosissimis confluentibus, albo-farctis; sporulis filiformi-falcatis, continuis, 20-30 ≃ 1, hyalinis. 6647

Hab. in foliis vivis Myrti Guaviyú in dumetis Caa-guazù Brasiliæ.

6. **Melophia Ruprechtiæ** Speg. Guar. I, p. 154. — Maculis amphigenis, indeterminatis, suborbicularibus, 2-3 mm. diam., areola pallescenti sæpe cinctis; stromatibus centro maculæ insidentibus, irregulariter suborbicularibus, 1-2 mm. diam., vix vel non prominulis, fusco-ferrugineis, intus albis; loculis hemisphæricis, angulosis, dense constipatis, minutis, 80-90 μ. diam., nucleo melleo; sporulis filiformi-clavulatis, utrinque acutiusculis, subfalcatis vel undulatis, 20 ≃ 1, hyalinis. 6648

Hab. ad folia viva Ruprechtiæ polystachyæ in Pastoréo de Caa-guazù Brasiliæ.

7. **Melophia Anonæ** Speg. Guar. I, p. 153. — Maculis nullis vel epiphyllis, minutis, 0,5-1 mm. diam. obscure ferrugineis; stromatibus epiphyllis innatis, vix prominulis, 0,5-0,7 mm. diam., atris, levibus, inæqualiter ellipticis, in centro maculæ sitis; loculis paucis v. sin- 6649

gulis nucleo albo farctis; sporulis acicularibus e fusoideo-linearibus, rectis vel subflexuosis, acutiusculis 15–20 ≃ 0,7–0,8, hyalinis.

Hab. ad folia languida Anonaceæ speciei in silvis prope Paraguarì Brasiliæ.

8. **Melophia Sapindacearum** F. Puigg. n. 438. — Maculis nullis vel indeterminatis, pallescentibus; stromatibus epiphyllis, minutis, innatis, applanatis, atris, opacis 2–3 mm. diam.; loculis dense constipatis, pusillis, 120-180 μ. diam,; sporulis filiformibus, continuis, hyalinis, 20-40 ≃ 1-1,5. 6650

Hab. ad folia viva Sapindaceæ cujusdam in nemorosis pr. Apiahy Brasiliæ.

9. **Melophia phyllachoroides** Speg. Guar. I, p. 153 (1886). — Maculis nullis; stromatibus amphigenis, minutis, 0,3-0,6 mm. diam., sparsis, atris, levibus, glabris, coriaceo-subcarbonaceis, duriusculis; loculis paucis, irregularibus; ostiolo majusculo, nucleo albo; sporulis acicularibus vel lineari-fusoideis vel subclavato-fusoideis, leniter curvis, non vel medio 1-septatis, 25-32 ≃ 2-3, utrinque aculeatis, apice magis acuminatis, nubilosis, hyalinis. 6651

Hab. in foliis vivis Oplismeni prope S. Tomas et Apiahy Brasiliæ.

LEPTOSTROMELLA Sacc. — Syll. III, p. 659

1. **Leptostromella Eucalypti** Cooke et Mass. Grev. XIX, pag. 91. — Maculis suborbicularibus, amphigenis, rubro-brunneis, dein fuligineis; peritheciis in maculis sparsis, minutis, subglobosis, dein elongatis, nigris, rima elongata dehiscentibus; sporulis filiformibus, rectis vel flexuosis, 20 μ long. 6652

Hab. in foliis languidis Eucalypti, Victoria Australiæ (Martin). — An stylosporæ *Aulographi?*

2. **Leptostromella elastica** Ell. et Ev. Proc. Acad. Phil. 1891, p. 79. — Maculis latis, sordide albis, ambitu obscurioribus et subpurpureo-marginatis; peritheciis epiphyllis, hysterioideis, 0,5-0,7 mm. long., rima longitudinali dehiscentibus; sporulis oblongis, hyalinis, 2-3-nucleatis, 12-15 ≃ 4-5; basidiis 12-15 ≃ 3-4, obtusis, subolivaceis. 6653

Hab. in foliis Fici elasticæ cultæ, Knoxville Tenn. Americæ borealis.

3. **Leptostromella orbicularis** Berl. Exc. Frioul, p. 25. — Peritheciis sparsis, orbicularibus, nigris, superne applanato-convexulis striatis, 0,3 mm. diam., astomis; sporulis cylindraceis, curvulis, 24-26 6654

≃3, utrinque rotundatis, nubiloso-guttulatis, hyalinis; basidiis sporulâ dimidio brevioribus.

Hab. in caulibus emortuis Caryophyllaceæ cujusdam, Osoppo Friuli.

4. **Leptostromella Bromeliæ** (Pat.) Sacc. *Leptostroma* Pat. Bull. Soc. Myc. 1888, p. 123. — Peritheciis hysterioideis, subcutaneis, rima dehiscentibus, 1-1,5 mm. long., disco albido; sporulis copiosis, filiformibus, flexuosis, continuis, longissimis, 70-80 μ. long.; basidiis brevissimis. 6655

Hab. ad caules emortuos Bromeliacearum, Atures Venezuela.

5. **Leptostromella anceps** Passer. Diagn. F. N. IV, n. 127. — Peritheciis crebre sparsis, subseriatis, innato-erumpentibus, oblongis, rimula longitudinali tenui exaratis; sporulis bacillari-clavulatis, rectis vel curvis, pluriseptatis, ad septa tandem constrictis et quandoque secedentibus, hyalinis, 45-50 ≃ 2,5-3. 6656

Hab. in stolonibus et rhizomatibus Agrostidis vulgaris, Vigheffio prope Parmam Ital. bor.

6. **Leptostromella aquilina** C. Mass. Mat. Mic. Ver. pag. 99, t. III, f 17. — Peritheciis dimidiato-scutiformibus, hypodermis, oblongis, applanatis, parietibus membranaceis, atris, sæpe incompletis, contextu obscure celluloso, hysteroideo-rimosis; sporulis filiformibus, subserpentino-flexuosis vel arcuato-incurvis, 50-80 ≃ 2, hyalinis, continuis, minutissime guttulatis. 6657

Hab. in ramis rachidis frondium siccarum Pteridis aquilinæ, Barbara prope Tregnago in agro veronensi Ital. bor — Differt a *L. pteridina* præcipue sporulis continuis.

BRUNCHORSTIA Erikss. in Bot. Centr. 1891, n. 36, p. 298 (Etym. a cl. doct. J. Brunchorst botanico norvegico, fungi detectore). — Perithecia erumpente, verruciformia, superficie irregulariter sulcata, minora simplicia, majora sepimentis ex pariete introrsum prodeuntibus plus minus complete loculata, primo astoma, demum uno vel pluribus poris irregularibus dehiscentia, superficie interna basidiis suberectis, septatis, stipatis vestita. Sporulæ filiformes, septatæ, hyalinæ.

1. **Brunchorstia destruens** Erikss. loc. cit. — Biophila; peritheciis solitariis vel 2-3 raro 4-7 aggregatis, 1-2 mm. lat.; sporulis filiformibus curvatis utrinque attenuatis et obtuse rotundatis, 3-4-septatis, 33-50 ≃ 3. 6658

Hab. in parte inferiore foliorum Pini austriacæ, cui valde noxia, ad Jäderem Norvegiæ.

Fam. 4. **Excipulaceæ** Sacc.

Sect. 1. Hyalosporæ.

EXCIPULA Fr. — Syll. III, p. 665.

1. **Excipula primulicola** Pat. in Rev. Myc. 1886, pag. 84. — Peritheciis superficialibus, sparsis vel confluentibus, 1 mm. diam., nigris, convexis, ostiolo papillato, siccitate collapso, nucleo albo farctis; sporulis filiformibus, 72–75 ≃ 2; basidiis brevibus. 6659

   Hab. in caulibus emortuis Primulæ Delavayi, Yunnan Tsangchan Sinarum (Ab. Delavay)

2. **Excipula Phaseoli** Karst. et Har. Rev. Myc. 1890, n. 47. — Peritheciis innatis, subemergentibus, orbicularibus, clausis, mox hiantibus discumque pallidum revelantibus, margine emergente, fuscescente, exiguis; sporulis cylindraceis, utrinque obtusis, curvulis, eguttulatis, hyalinis, 12–19 ≃ 2–2,5; basidiis brevissimis. 6660

   Hab. in legumine Phaseoli, Noidan, Côte-d'Or Galliæ (F. Fautrey).

3. **Excipula ramicola** Cooke et Mass. in Grev. XVI, p. 9. — Peritheciis superficialibus, sparsis v. gregariis, disciformibus, convexis, minusculis, $^1/_4$ mm. diam.; sporulis cylindraceis, obtusis, 25–30 ≃ 4, hyalinis, pluriguttatis, (an demum multiseptatis?); basidiis simplicibus, brevibus. 66 1

   Hab. in ramis Aceris obtusati, Kew London Britanniæ.

DOTHICHIZA Lib. — Syll. III, p. 671.

1. **Dothichiza Viburni** Karst. Sphærops. Fenn. p. 83. — Peritheciis erumpentibus, simplicibus v. cæspitosis, rotundatis, membranaceis, clausis, mox irregulariter dehiscentibus, atris, nucleo discoideo, convexo, molli, pallido, circ. 1 mm. lat.; sporulis ellipsoideo-oblongatis, utrinque vulgo 1-guttatis, continuis, hyalinis, 6–8 ≃ 2–3. 6662

   Hab. in ramis aridis Viburni Opuli inter Särkjärvi et Heinäsjärvi pr. Mustiala Fenniæ.

2. **Dothichiza? Eupatorii** C. Mass. Contr. Mic. Ver. pag. 99, t. III, f. 18. — Peritheciis superficialibus, effusis, nigris, sæpe confluentibus, convexo-applanatis, membranaceis, primum clausis, dein rima longitudinali v. superne irregulariter erumpentibus, subdiscoideis; 6663

basidiis crassis, 12-14 ≃ 2-3, cylindraceis, simplicibus, lateraliter arcte contiguis, septatis, superne ad septa subarticulato-constrictis, apice obtusis; sporulis chlorinis, 4-5 ≃ 1, oblongis, utrinque rotundato-obtusis.

Hab. in caulibus emortuis Eupatorii cannabini, S. Pancrazio pr. Veronam Ital. bor.

3. **Dothichiza juncina** Speg. F. Fueg. n. 432. — Maculis nullis; peri- 6664
theciis erumpenti-tuberculosis, subdifformibus, 500-650 μ. diam., in vivo prominulis, in sicco ruguloso-contractulis, atris, glabris, coriacellis; contextu indistincto, opaco, atro; sporulis densissime conglobatis, elliptico-cylindraceis, 3-5 ≃ 1, utrinque attenuato-rotundatis, curvulis, continuis, hyalinis.

Hab. ad culmos languidos Junci cujusdam, Punta anegada in Freto magellanico Fuegiæ.

LEMALIS Fr. — Syll. III, p. 672.

1. **Lemalis quercina** Schwein. Syn. Amer. bor. p. 184, n. 1090. — Ova- 6665
ta, 2-5 mm. diam., sparsa, sublibera, fusco-atra, subgelatinosa; disco interdum subplicato, involuto, nigro, pulverulento-nigro.

Hab. in ramis querneis decorticatis, Bethlehem Amer. bor.

DISCULA Sacc. Syll. III, pag. 674.

1. **Discula quercicola** Oud. Contr. Fl. Myc. Pays-Bas. XI, p. 34. 6666
— Peritheciis sparsis, incompletis, sub epidermide nidulantibus, hac rupta vero prominentibus; sporulis perithecia replentibus, in massa visis disculum nigrum simulantibus, elongato-ellipticis, continuis, hyalinis, 9-12 ≃ 3½.

Hab. in ramis Quercus rubræ, Naaldwijk Nederlandiæ. — *D. quercinæ* proxima sed sporulis minoribus distincta.

2. **Discula Cratægi** Oud. Contr. myc. Pays-bas, XII, p. 30. — Perithe- 6667
ciis per peridermii rimam ½ mm. long., ¼ mm. lat. dehiscentibus, contextu tenuissimo; sporulis copiosissimis, continuis, hyalinis, rectis v. vix curvis, anguste oblongis, 9-12 ≃ 3-4.

Hab. in internodiis junioribus ramulorum Cratægi monogynæ in silva de la Haye Nederlandiæ (Destrée).

3. **Discula Fagi** Oud. Contr. Mycol. XIII, p. 53. — Peritheciis inter 6668
periderma et parenchyma corticale nidulantibus, imperfectis; sporulis ovoideis, oblongo-ovoideis v, piriformibus, utrinque obtusiusculis v. acutiusculis, nonnumquam 2-guttatis, 8-14 ≃ 3-4⅓.

Hab. in ramulis Fagi silvaticæ in silva de la Haye Nederlandiæ (Destrée).

4. **Discula acerina** Oud. Contr. Mycol. XIII, p. 53 (ubi diagnosis?). 6669
Hab. in ramulis Aceris campestris, Schéveningue Nederlandiæ (Destrée).

5. **Discula Rosæ** Oud. Contr. mycol. XIII, p. 54, f. 35. — Perithe- 6670
ciis ellipsoideis, nigrellis, sparsis, infra epidermidem celatis, contextu fere nullo; sporulis fusoideis, 10–14 ≃ 4–5, hyalinis, continuis; basidiis sporulam æquantibus.
Hab. in ramis Rosæ sp. cujusdam in silva de la Haye Nederlandiæ (Destrée).

6. **Discula Xanthoxyli** Ell. et Ev. Journ. Myc. 1889, p. 152. — Pe- 6671
ritheciis gregariis, maculis dealbatis, 2–3 cm. lat. insidentibus, subdiscoideis, circ. 150 μ. diam., contextu grosse parenchymatico, poro minuto, orbiculari supra pertusis, circa porum compactioribus et subopacis, ceterum tenuioribus et pellucidis; sporulis copiosis, oblongo-cylindraceis, hyalinis, continuis, 12-20 ≃ 3-3,5; basidiis nullis v. vix conspicuis.
Hab. in caulibus emortuis Xanthoxyli, Martinsville, Louisiana Amer. bor. (Rev. A. B. Langlois).

7. **Discula runcinata** Ell. et Ev. Journ. Myc. 1889, p. 153. — Gre- 6672
garia v. sparsa; peritheciis epidermide primo tectis, dein convexis et erumpentibus, eorum parte superiore evanescente ideoque apice late pertusis, 150-200 μ. diam.; contextu grosse parenchymatico; sporulis hyalinis, continuis, oblongis, curvis, 18–23 ≃ 3,5–4.
Hab. in caulibus emortuis Stephanomeriæ runcinatæ, Helena, Mont. Amer. bor. (Rev. F. D. Kelsey).

SPORONEMA Desm. — Syll. III, p. 677.

1. **Sporonema pallidum** Ell. et Ev. Journ. Myc. 1889, p. 153. — Ma- 6673
culis dealbatis; peritheciis gregariis, erumpentibus, cæspitosis, 0,5 mm. diam., supra radiato-multifidis v. demum irregulariter lacerato-fissis; sporulis concatenatis, 8–10 ≃ 2, subcylindraceis, hyalinis, in basidiis acrogenis.
Hab. in ligno denudato et putri Aceris, Ridgeway, N. Y. Amer. bor. (Doct. C. E. Fairman).

2 **Sporonema quercicolum** C. Mass. Contr. Mic. Ver. p. 101, t. III, 6674
f 20. — Peritheciis hypophyllis, orbiculatis, lenticularibus, colore argillaceo, sparsis, subsuperficialibus, epidermide tectis, diametro vix ½ mm. superantibus, parietibus membranaceis, contextu cellu-

loso, primum clausis, dein e centro ambitum versus in lacinias rimose dehiscentibus; basidiis tenuissimis, filiformibus, continuis 1 μ. cr.; sporulis numerosissimis, acrogenis et catenulatis, oblongis, subchlorinis, continuis, subcurvulis, utrinque oblique acutis, naviculariusve, 5-7 ≃ 2.

Hab. in foliis marcescentibus Quercus Roboris, sociâ *Discosiâ arlocreate*, Tregnago pr. Veronam Ital. bor.

3. **Sporonema Platani** Bäuml. Myc. Not. III, p. 1. — Peritheciis hypophyllis, primo subcutaneis, demum erumpenti-liberatis, clausis, fuscis, 200-300 μ. diam., contextu crasse parenchymatico, tandem rimose dehiscentibus; disco albo, udo gelatinoso, convexo; sporulis numerosis, oblongo-ovoideis v. fusoideis, 7-11 ≃ 3-4, hyalinis; basidiis 6-10 ≃ 2, simplicibus. 6675

Hab. in foliis emortuis Platani occidentalis, Anpark pr. Pressburg Hungariæ.

4. **Sporonema Castaneæ** C. Mass. Contr. Mic. Ver. pag. 101, t. III, f. 21. — Peritheciis fusco-castaneis subargillaceisve, hypophyllis, irregulariter disseminatis, subsuperficialibus, lenticularibus ½ v. vix 1 mm. diam. attingentibus, intus nucleo albo farctis, parietibus submembranaceis, obscure cellulosis, primum clausis, demum e centro rimis tribus ambitum versus semel v. bis radiatim dichotomis, in lacinias plures dehiscentibus; basidiis simplicibus?, 1,5 μ. cr.; sporulis subchlorinis, catenulatis, continuis, fusiformibus, curvulis, 12-15 ≃ 2-2,5, utrinque acutis. 6676

Hab. in foliis siccis dejectis Castaneæ vescæ, sæpe sociâ *Stagonosporâ Castaneæ*, Tregnago pr. Veronam Ital. bor.

5. **Sporonema? dubium** C. Mass. Contr. Mic. Ver. p. 100, t. III, f. 19. — Peritheciis amphigenis, nitidis, orbiculatis, lenticularibus, subsuperficialibus, epidermide velatis, astomis (dein e centro ambitum versus dehiscentibus?), parietibus contextu subindistincte parenchymatico, nigro, dimidio usque ad 1 mm. diam., intus nucleo subalbo farctis; basidiis linearibus, simplicibus, 1 μ. cr.; sporulis acrogenis, catenulatis, numerosissimis hyalinis, vix chlorinis, oblongis, utrinque oblique acutis navicularibusve, 6-8 ≃ 2-2,5. 6677

Hab. in foliis emortuis dejectis Castaneæ vescæ, Marcenigo pr. Tregnago in agro veronensi Ital. bor.

6. **Sporonema strobilinum** Desm., Sacc. in Bull. Soc. myc. V, p. 121, (1889), Syll. III, p. 678. — Perithecia initio clausa dein anguste inæqualiter rimoso-dehiscentia, basidia simplicia v. verticillato-ramulosa; sporulæ senescentes plasmate bipartito spurie 1-septatæ. Hinc 6678

Stagonospora strobilina (Curr.) Sacc. Syll. III, p. 450 seu *Sphæria strobilina* Curr. Simpl. Sphærops. pag. 329 verisimillime est eadem res.

PLEOCOCCUM Desm. et Mont. — Syll. III, p. 679.

1. **Pleococcum harposporum** Bomm. Rouss. Sacc. Contr. Myc. Belg. IV, p. 89. — Peritheciis superficialibus, e brunneo subrubescentibus, 270-300 μ. diam., superficie in sicco inæquali per 3-5 valvas late dehiscentibus; sporulis fusoideis, curvulis hyalinis, 15-18 × 2,5. 6679

   Hab. in fragmentis ligneis Fagi silvaticæ, Stoumont Belgii.

2. **Pleococcum Holoschœni** Passer. Diagn. F. N. V, n. 46. — Erumpens, ātrum, hysteriiforme, oblongatum; peritheciis valvatim hiantibus subdimidiatis; nucleo rosello; sporulis elongato-fusiformibus, utrinque acuminatis, integris, hyalinis, 2-3-guttulatis 12,5-15 × 2,5, basidiis filiformibus subæquantibus fultis. 6680

   Hab. in culmis emortuis Scirpi Holoschœni, Vigheffio pr. Parmam Ital. bor. — An forma basidiospora *Propolis Holoschœni*, cui facie similis?

AMEROSPORIUM Speg. — Syll. III, p. 680.

1. **Amerosporium Geranii** Cooke et Harkn. in Grevillea XIII, p. 112. — Gregarium, erumpens, demum subliberatum; peritheciis e globoso cupulatis, pilis nigricantibus, tenuibus, dense vestitis; sporulis curvulis, utrinque attenuatis, continuis, hyalinis, 20 × 3-5. 6681

   Hab. in caule Geranii in California (Harkness).

2. **Amerosporium Sedi** Karst. Rev. Myc. 1888. — Peritheciis gregariis, superficialibus, atris, setis simplicibus, rigidis, erectis, continuis, atris, circ. 220 μ. long. obsessis; circ. 0,5 mm. lat.; conidiis fusoideo-elongatis, curvulis continuis, eguttulatis, hyalinis, 24-26 × 2,5-3. 6682

   Hab. in foliis languescentibus Sedi Telephii in regione Aboensi Fenniæ (Onni Karsten).

3. **Amerosporium Menispermi** Passer. Diagn. F. N. IV, p. 14. — Peritheciis sparsis v. gregariis, superficialibus, atris, siccitate subglobosis v. ovatis, madore cupulato-dilatatis, contextu celluloso, setis rigidis continuis, longitudine varia fuligineis, apice acuminato pellucidis, obsitis; sporulis fusiformibus, curvis, utrinque acutis, muticis, continuis, hyalinis, 15-20 × 3-3,5, basidiis filiformibus, fasciculatis, fulvidulis, 25-32 μ. long. fultis. 6683

Hab. in ramulis siccis Menispermi canadensis, Parma in horto botanico Ital. bor.

4. **Amerosporium œconomicum** Ell. et Tracy in Journ. Myc. 1888, p. 102. — Maculis orbicularibus, 2–6 mm. diam., supra albis, rubenti-marginatis, subtus sæpius omnino rubris; peritheciis epiphyllis, erumpentibus, conico-hemisphæricis, supra late pertusis, setulis rectis, radiantibus, griseo-nigris, septatis, 100–150 ≃ 4; sporulis oblongo-fusoideis, guttatis, 18–27 ⋅ 4. 6684

Hab. in foliis Leguminosæ cujusdam (*Cow pea*), Starkville, Missouri Amer. bor. (Tracy).

5. **Amerosporium ilicinum** Ell. et Ev. in Journ. Myc. 1888, p. 50. — Maculis amphigenis, irregularibus, 2–3 mm. lat., definitis, plerumque anguste subelevato-marginatis, extus purpurascenti-limitatis, tenuissimis, demum deciduis, supra albis, pallide rubiginosis; peritheciis circ. 100 μ. diam., immersis, basi subtus prominulis, supra pertusis, margine pilis sparsis, 20 μ. long., continuis, subincurvis, nigris, demum deciduis præditis; sporulis oblongis, 10-15 ≃ 4–5, plerumque 12–14 ≃ 4–4,5, hyalinis, continuis. 6685

Hab. in foliis vivis Ilicis deciduæ, Plaquemines, La. Amer. bor. (Langlois). — Socia adest *Phyllosticta concomitans* et *Macrosporii* species quædam.

6. **Amerosporium subclausum** Ell. et Kell. Journ. Myc. 1889, p. 143. — Amphigenum, sparsum; peritheciis nigris, ovoideo-globosis, 90–150 μ. diam., grosse parenchymaticis, poro fimbriato, pilis septatis, patentibus, brunneis, 60-220 ≃ 5–8, supra attenuatis prædito, pertusis; sporulis oblongo-cylindraceis, obtusis, continuis, hyalinis, 10–13 ≃ 2–3. 6686

Hab. in foliis dejectis Gymnocladi canadensis Amer. bor. (Kellerman et Swingle). — Ab *A. polynematoidi* peritheciis diversum.

7. **Amerosporium hysteriiforme** Pass. in litt. *Excipula* De Not. in Pass. Primo Elenco Fung. Parm. p. 442 (nomen). 6687

Hab. in palis decorticatis salicinis, Parma.

8. **Amerosporium sabalinum** Ell. et Ev. in Journ. Myc. 1888, p. 50. — Peritheciis erumpenti-superficialibus, cupuliformibus, 100-150 μ. diam., in pilos paucos, patentes, rectos, nigro-brunneos, continuos, 15–20 ⋅ 6–7 fimbriatis; sporulis fusoideo-oblongis, flavido-hyalinis, continuis, 5–8 ⋅ $1^1/_4$–$1^1/_2$. 6688

Hab. in foliis emortuis Sabal Palmetto, Louisiana Amer. bor. (Langlois).

9. **Amerosporium macrochætum** Ell. et Ev. in Journ. Myc. — Peri- 6689
theciis sparsis, superficialibus, circ. 1/3 mm. diam., primo hemisphæricis, demum apertis et cupulatis, margine pilis paucis, validis, rectis, obtusis, olivaceis, continuis v. parce septatis, subtus subopacis, supra subhyalinis v. pallidioribus, 250-300 ≃ 10-12; sporulis fusoideis, pallide olivaceis, 2-3-guttatis, 10-12 ≃ 1,5, basidiis gracilibus, sporulâ longioribus fultis.

Hab. in foliis et vaginis Rhynchosporæ macrostachyæ, Pointe à la Hache, La. Amer. bor. (A. B. Langlois).

10. **Amerosporium insulare** Speg. F. Fueg. n. 433. — Peritheciis im- 6690
mersis, seriatis, minutis, 150-250 μ. diam., primo epidermide tectis clausis, dein erumpenti-apertis, margine ciliatis, setis cylindraceis, apice acutis, basi non incrassatis, 1-4-septatis, non constrictis, 50-100 × 6, fuligineis, rectis v. flexuosulis, contextu parenchymatico-olivaceo; sporulis cylindraceis, utrinque attenuato-acutatis, 20-26 ≃ 4-5 ac curvulis, continuis, hyalinis.

Hab. in culmis emortuis Poæ Forsterii pr. Port Cooke in Staten island Fuegiæ.

DINEMASPORIUM Lév. — Syll. III, p. 683.

1. **Dinemasporium epixylon** Fautrey in Rev. myc. 1889, p. 152. — 6691
Peritheciis disseminatis, majusculis, inæqualiter excipuliformibus, setulis, brevibus nigrellis vestitis; sporulis tereti-fusoideis pluriguttulatis, 24-28 ≃ 3-4, curvulis, setula 2,4-0,5 utrinque auctis.

Hab. in ligno seminudo, Noidan, Côte-d'Or Belgii.

2. **Dinemasporium decipiens** (De Not.) Sacc. Syll. III, p. 685 — var. 6692
Citri C. Mass. Mic. nuovi Ver. n. 19. — Basidiis subdichotomodivisis, 20 ≃ 25 μ. longis; sporulis fusoideo-allantoideis, 5-6 × 2-2,5, utrinque setula 2. μ. long. auctis.

Hab. in ligno decorticato sicco Citri Limonum, Tregnago pr. Veronam Ital. bor.

3. **Dinemasporium purpurascens** Rich. Cat. Champ. Marn. n. 1801. 6693
— Peritheciis valde apertis, pilis nigris tectis, junioribus violaceis intus roseis; sporulis brevibus.

Hab. in ramulis emortuis Salicis, St.-Amand Galliæ.

4. **Dinemasporium radiatum** Ell. et Ev. in Journ. Myc. 1888, p. 103. 6694
— Peritheciis erumpentibus, gregariis, 1/4-1/2 diam., cupuliformibus, margine in pilos rigidos, nigros, continuos, 50-70 ≃ 2,5-3, siccis incurvis fimbriatis; basidiis simplicibus, cylindraceis, brunneolis, 25-50 ≃ 1,5; sporulis solitarie acrogenis, ovato-oblongis, hyalinis,

2-3-guttatis 6-7 ≃ 2-2,5, apice setula unica erecta basi pilis 4-5 radiato-patentibus, donatis, demum vix 1-septatis.

Hab. in ramulis emortuis Celtidis occidentalis, West Chester, Pa. Amer. bor.

5. **Dinemasporium immersum** (Desm.) Sacc. *Excipula immersa* Desm. 24 Not. pag. 11. — Peritheciis hypo- vel epiphyllis, minutis membranaceis, profunde immersis, suborbiculatis, sparsis, paucis, subsolitariis, nigris, hispidis, pezizoideo-apertis; setis numerosis, longissimis, rectis, atris, subopacis, septatis; nucleo albido, humecta-to dilatato-fluxili; sporulis copiosis, cylindraceis, rectis v. subcurvulis, hyalinis, 15-20 ≃ 2,5, utrinque in apiculum filiformem, pellucidum, tenuissimum terminatis. 6695

Hab. in foliis vetustis Quercus et Pruni lusitanicæ in Gallia boreali.

POLYNEMA Lév. — Syll. III. p. 687.

1. **Polynema tricristatum** (Pat.) Sacc. *Dinemasporium* Pat. Bull. Soc. Myc. 1887, p. 131. — Minutissimum, punctiforme v. elongatum, siccum clausum, brunneo-nigricans, udum aperto-cupuliforme; disco albido; pilis exterioribus, rigidis, acutis, brunneis, 37-75 μ. long.; sporulis hyalinis, centro ostiolatis, rectis v. subcurvis, 10-13. μ. long., plerumque utrinque setis 3, raro 1-2 præditis. 6696

Hab. in culmis emortuis Graminaceæ, Congo Africæ occid.

Sect. 2. Phæosporæ.

PHÆODISCULA Cub. in N. G. B. I. 1891, p. 577. (Etym. a *phæos* ater et *Discula*). — Perithecia patellato-disciformia, membranacea, intus hyphis subhyalinis, conglutinatis composita, extus atra. Sporulæ ellipticæ, continuæ, fuligineæ, basidiis filiformibus, simplicibus suffultæ.

1. **Phæodiscula Celottii** Cub. in N. G. B. J. 1891, loc. cit. — Peritheciis superficialibus, sparsis, nigris, primitus subclausis, demum expansis, margine inflexo, 0,6-0,8 mm. diam., basi pilis dilute fuligineis, pluriseptatis præditis; sporulis ellipticis, atro-fuligineis, 11-12 ≃ 4-5; basidiis dilute fuligineis, 35-40 μ. long. 6697

Hab. in ligno decorticato Mori albæ, Conegliano Italiæ bor. (Luigi Celotti).

CONIOTHYRIELLA Speg. F. Puigg. n. 439 (Etym. a *Coniothyrio*, cui

affine). — Perithecia minuta, innata, cupulato-aperta, margine setulosa. Sporulæ ellipsoideæ, olivaceæ, continuæ.

1. **Coniothyriella phyllostictoides** Speg. F. Puigg. n. 439. — Maculis orbicularibus, determinatis, amphigenis 2-5 mm. diam.; perithecis innatis, minutis, 100-150 μ. diam., atris, primo tectis, dein erumpenti-apertis, margine setulosis; sporulis ellipsoideis, fuligineo-olivaceis, 8-10 ≃ 4. 6698

   Hab. ad folia viva coriacea Mayteni sp. cujusdam in silvis pr. Apiahy Brasiliæ.

Sect. 3. Didymosporæ.

DISCELLA B. et Br. — Syll. III, p. 687.

1. **Discella Grossulariæ** Oud. Contr. Mycol. XIII, p. 54, f. 37. — Maculis minimis, nigerrimis, $^1/_{10}$-$^1/_5$ mm. diam., peritheciis scutiformibus, apice ruptis; sporulis numerosis, bacillaribus, rectis v. subcurvulis, utrinque rotundatis, 1-septatis, singulis hyalinis, coacervatis melleis, 7-10 ≃ 2-3. 6699

   Hab. in ramulis junioribus Ribis Grossulariæ, Schéveningue Nederlandiæ (Destrée).

2. **Discella Pseudoplatani** Oud. Contr. Mycol. XIII, p. 55, (ubi diagnosis?). — Sporulis fusoideis, hyalinis, 1-septatis, 11-17 ≃ 2-3. 6700

   Hab. in ramulis Aceris Pseudoplatani in silva de la Haye Nederlandiæ (Destrée),

3. **Discella pilosula** Ell. et Ev. Journ. Myc. 1889, p. 153. — Peritheciis gregariis, ovoideis, $^1/_3$-$^1/_2$ mm. diam., erumpentibus, superficialibus, nigris, rugosis, pilis paucis, nigris vestitis, dein late pertusis, margine sublacero-dentatis v. subfimbriatis; contextu subfibroso; sporulis cylindraceis, curvis 3-6-guttatis, continuis v. vix 1-septatis, brunneolo-hyalinis, 10-16 × 2-2,5, utrinque sæpius abrupte mucronato-acuminatis, incurvis; basidiis tenuibus, simplicibus v. etiam ramosis, 25-30 μ. long. 6701

   Hab. in Acere decorticato, Lyndonville, N. J. Amer. bor. (Doct. C. E. Fairman).

4. **Discella albo-maculans** Peck in 35 Rep. Stat. Mus. 1884, p. 137. — Peritheciis punctiformibus, hemisphæricis, prominulis, in macula alba, indefinita gregariis, atris, rima irregulari vel radiata apertis; sporulis numerosis, oblongis, obscure uniseptatis, 10-12 ≃ 3, hyalinis. 6702

Hab. in ramulis emortuis Vitis in montibus Helderberg in America boreali.

5. **Discella hysteriella** Peck in 35 Rep. Stat. Mus. 1884, p. 137. — Peritheciis hysteriiformibus, inter fibras ligni nidulantibus, rima longitudinali vel elliptica demum apertis, nigris; sporulis numerosis, oblongis utrinque obtusis, obscure uniseptatis, 7,5-10 ≃ 3-4, hyalinis. 6703

Hab. in ligno decorticato, North Greenbush Amer. bor.

6. **Discella aloetica** Sacc. F. Abyss. n. 40, f. 13. — Peritheciis erumpenti-superficialibus, disciformibus, $^1/_4$–$^1/_3$ mm. diam., fuscis, dein nigricantibus, contextu parenchymatico fuligineo, hinc inde cyanescente, hyphis filiformibus, septatis dilute fuscis cinctis; sporulis anguste fusoideis, curvulis, 1-septatis, 10-15 ≃ 2, hyalinis; basidiis fasciculatis apice attenuatis, 12-15 ≃ 2, hyalinis. 6704

Hab. in scapo florigero Aloes abyssinicæ, Gheleb Erythrææ Africæ or. (O. Penzig).

7. **Discella palmicola** Cooke et Mass. in Grev. XVIII, p. 87. — Peritheciis spuriis, supra obsoletis, dein patellatis, erumpentibus, atris, initio epidermide tectis, dein lacerato-fissis; sporulis ellipticis, uniseptatis, nec constrictis, purpureo-fuscis, 24-30 ≃ 9-12. 6705

Hab. in petiolis Palmarum, Madagascar Africæ orient. — Sec. Oudem. Contr. Myc. XIII, p. 55, *Fusicoccum Æsculi* Corda — Syll. III, p. 247 — verisimillime idem est ac *Discella Æsculi* Oud. loc. cit. (sporulis 28 ≃ 5, 1-septatis, basidiis hamatis) sed stromate fere cytosporoideo ab Oudem. descripto a typo *Discellæ* recedere videtur. Hæc postrema in ramis Æsculi Hippocastani, la Haye Nederlandiæ occurrit.

PSEUDOPATELLA Sacc. Syll. III, p. 688 (nec Speg., 1891, quæ *Nothopatella* Sacc.).

1. **Pseudopatella corticalis** Bomm. Rouss. Sacc. Contr. Myc. Belg. IV, p. 89. — Peritheciis excipuliformibus, marginatis, erumpentibus, coriaceis, in sicco nigris, 2-3-aggregatis; sporulis hyalinis, fusoideis, 1-septatis, 10-11 ≃ 3, in basidiis verticillato-ramosis corymbose nascentibus. 6706

Hab. in ramis Coryli Avellanæ, Rouge-Cloître Belgii.

Sect. 4. Phragmosporæ.

EXCIPULINA Sacc. Syll. III, p. 688.

1. **Excipulina graminum** Karst. Symb. XXI, p. 106. — Peritheciis 6707

sparsis, innatis, cuticula tectis, dein ea scissa prominulis, primitus clausis, dein ore lato apertis, orbiculatis v. hysteriiformibus, mollibus, atris, disco pallido, excipulo parenchymatico, fuligineo, circ. 0,3 mm. lat.; sporulis fusoideo-elongatis, utrinque attenuatis, rectis, nonnumquam inæquilateralibus, 3-5-septatis, chlorino-hyalinis v. hyalinis, 51-75 ≃ 12-15, apice setula filiformi, hyalina, circ. 60 ≃ 1,5 ornatis.

Hab. in foliis putrescentibus Alopecuri pratensis, Mustiala Fenniæ.

EXCIPULARIA Sacc. Syll. III, p. 689.

1. **Excipularia lignicola** Karst. et Malbr. Symb. Myc. Fenn. XXIV, p. 18. — Sporulis fusoideo-bacillaribus, tenuiter 1-3-septatis, curvulis, 12-15 ≃ 2. 6708

Hab. in ligno ramorum Syringæ vulgaris, Aboa Fenniæ. — Veremur, ait ill. Karsten, ne hæc forma eadem sit ac *Amerosporium cervinum* (Pers.) Sacc. Syll. III, p. 632.

PILIDIUM Kunze em. Sacc. Syll. III, p. 689.

1. **Pilidium silvestre** (Fautr.) Sacc. *Pseudostictis silvestris* Fautrey in Rev. myc. 1890, p. 119. — Hymenio epidermide cincto, in tres v. quatuor partes fisso, substellato, elliptico, flavido; sporulis cylindraceo-oblongis, serius 3-septatis, 4-guttulato-ocellatis, dimensionibus variis, plerumque 16-22 ≃ 5-6. 6709

Hab. in caulibus siccis Pastinacæ sativæ, Côte-d'Or Galliæ.

2. **Pilidium graminicolum** Peck 40 Rep. p. 62. — Peritheciis minutis, depressis, erumpentibus, orbiculatis v. hysterioideis, 200-350 μ. lat., late apertis, nigris, disco albido, margine laciniato-dentato; sporulis oblongis v. fusoideis, hyalinis, 3-septatis, 35-40 ≃ 10-12; basidiis brevibus, hyalinis. 6710

Hab. in foliis Calamagrostidis canadensis in Mont. Marcy Amer. bor.

ACANTHOTHECIUM Speg. F. Puigg. n. 440 (Etym. *acantha* spina, seta et *thece* perithecium). — Perithecia (an sporodochia?) superficialia, cupulata, atra, margine setulosa. Sporulæ cruciato-quadrifidæ (X-formes) pluriseptulatæ, hyalinæ. — Genus perpulcrum inter *Excipulaceas* et *Tuberculariеas dematieas* anceps.

1. **Acanthothecium mirabile** Speg. F. Puigg. n. 440. — Maculis nullis; peritheciis minutis, epiphyllis, glomerulatis, superficialibus, hispido-setulosis, atris, 350–750 μ. diam., epithecio pallescente donatis; sporulis subcruciatim quadrifidis, ramis falcato-oppositis, puncto centrali tantum connatis, ramo uno breviore in sterigma producto donatis, hyalinis, ramis superioribus, 45-50 × 3, inferioribus 25-30 × 4. 6711

Hab. ad folia viva Xanthoxyleæ cujusdam in nemorosis pr. Apiahy Brasiliæ.

TÆNIOPHORA Karst. Symb. XVII, pag. 163 (Etym. *tænia* fascia et *phoreo* fero). — Perithecia erumpentia, inæqualia, laciniatim v. irregulariter dehiscentia, membranaceo-carbonacea, atra, nuda. Sporulæ 3-septatæ, fuligineæ, concatenatæ, basidiis suffultæ.

1. **Tæniophora acerina** Karst. loc. cit. — Peritheciis erumpenti-superficialibus, vulgo in series aggregatis, sæpe confluentibus, pulvinatis v. applanatis, atris, disco subconcolori seu fuscescenti-atro, 300–400 μ. lat.; sporulis oblongato- vel ellipsoideo-fusoideis, rectis, 3- rarissime 2-4-septatis, ad septa constrictis, concatenatis, ex hyalino dilute fuligineis, 18–26 × 9. 6712

Hab. in ramulis emortuis Aceris platanoidis, Aboa et Vasa Fenniæ.

Sect. 5. Scolecosporæ.

PROTOSTEGIA Cooke. — Sacc. Syll. III, p. 690.

1. **Protostegia autumnalis** Sacc. in Rev. Myc. 1886, pag. 6. — Peritheciis disciformibus, ascomatibus *Pseudopezizæ autumnalis* simillimis, atris, erumpentibus; sporulis bacillaribus, 20-22 × 1, rectiusculis, hyalinis. 6713

Hab. in caulibus Galiorum, sociâ *Pseudopezizâ autumnali*, cujus est spermogonium in Gallia (Angèle Roumeguère).

2. **Protostegia pusilla** Speg. F. Puigg. n. 441. — Maculis amphigenis, cinerescentibus, determinatis, angulosis, 1–3 mm. diam.; peritheciis lenticularibus, minutis, erumpentibus, sordide fuscis 180–200 μ. diam.; sporulis filiformibus continuis, hyalinis, 30-40 × 1. 6714

Hab. ad folia coriacea, dejecta, putrescentia in silvis pr. Apiahy Brasiliæ.

3. **Protostegia Eucalypti** Cooke et Mass. in Grev. XVI, p. 75. — Epiphylla; peritheciis immersis, cupuliformibus, gelatinosis, aurantiis, epidermide demum fissa tectis; sporulis obclavatis, sigmoideis curvulisve, elongatis, hyalinis, continuis, 60-90 ≈ 3; basidiis brevissimis. 6715

Hab. in foliis emortuis Eucalypti incrassatæ, Melbourne Australiæ (Reader).

4. **Protostegia Pleromatum** Speg. Guar. I, p. 154. — Maculis nullis v. effusis sæpeque totum folium occupantibus; peritheciis atris sparsis, epidermide atrata velatis, hemisphærico-prominulis, dein 3-4-laciniato-fissis, disculo concavo, contextu crassiusculo subcarnosulo minute obsoleteque parenchymatico, olivaceo-fuligineo; sporulis subacicularibus, 70-80 ≈ 1-2, obsolete 1-5-septatis, utrinque obtusiuscule acutatis, hyalinis. 6716

Hab. ad folia viva Pleromatis speciei in silva Caà-guazù Brasiliæ.

SCHIZOTHYRELLA Thüm — Syll. III, p. 690.

1. **Schizothyrella Hippocastani** E. et Ev. Proc. Ac. Phil. 1891, p. 78. — Peritheciis subseriatim erumpentibus, superficialibus, nigris, globoso-tuberculiformibus, subconfluentibus v. singulis demum plus minus distincte 4-sulcatis; sporulis fasciculatis, 75-80 μ. long., in articulos cylindraceos, hyalinos, truncatos, 8-10 ≈ 1,5 supra secedentibus, basi (basidio) brunneolis. 6717

Hab. in cortice emortuo Æsculi Hippocastani, London Canada Amer. bor. (J. Dearness).

EPHELIS Fr. — Syll. III, p. 691.

1. **Ephelis borealis** Ellis et Ev. in Journ. of Myc. 1885. — Stromate griseo, extenso, folium ambiente, circiter $^1/_2$ cm. lato, et *Epichlöi typhinæ* simili; peritheciis paucis, 2-5 in quoque stromate, innatis, leniter convexis, primo parte superiore stromatis tectis, demum expositis, margine imperfecto, *Pezizam* simulantibus; sporulis acicularibus, sæpe rectis v. subinde medio curvatis, hyalinis vel pallide luteolis, nucleolatis (?), utrinque obtusis, 15-25 ≈ $^3/_4$. 6718

Hab. in foliis vivis Graminum, Nova Scotia Amer. bor. — An ab *Eph. mexicana* distinguenda?

2. **Ephelis trinitensis** C. et Mass. Devel. of Eph. p. 34, t. IV. — Stromate solido, nigro, effuso, circumambiente, typhoideo; perithe- 6719

ciis pezizoideis, erumpentibus, ellipticis, margine lacerato, stratu sporifero griseo; sporulis filiformibus, continuis, rectis v. leniter curvulis, hyalinis, 25-30 ≃ 1,5, basidiis brevibus suffultis.

Hab. in inflorescentia Panici palmifolii, Trinidad Amer. austr. (J. H. HART).

3. **Ephelis Poæ** (Lib.) Sacc. F. Ard. n. 207, *Dacryomyces Poæ* Lib. Crypt. II, n. 135 (1832). — Peritheciis discoideo-hemisphæricis, minutis, initio albis, maculæ subquadratæ nigræ insidentibus, collabascendo concavis, virescentibus; excipulo fusco radiato-parenchymatico; sporulis filiformibus, curvulis, dense fasciculatis, 25–30 ≃ 1, hyalinis; basidiis brevibus angustis. 6720

Hab. ad folia emortua Poæ sudeticæ in Arduennis.

PSEUDOCENANGIUM Karst. Symb. XVII, p. 163. — Perithecia superficialia, libera sphæroidea v. obovoidea, clausa, dein ore lato, lacero aperta, tenuiter membranaceo-carbonacea, atra, glabra. Sporulæ filiformes, simplices, hyalinæ, in catenulam digestæ.

1. **Pseudocenangium Pinastri** Karst. loc. cit. — Peritheciis gregariis v. sparsis, globosis v. obovoideo-globosis, dein late apertis, margine lacero, subinde fimbriato, atris, glabris, disco pallidioribus, 0,2 mm. diam.; sporulis filiformibus, simplicibus, rectis, 21–25 ≃ 0,5–1; basidiis brevibus, filiformibus. 6721

Hab. in foliis vetustis Pini silvestris pr. Mustiala Fenniæ.

MELANCONIEÆ Berk. em. Sacc. — Syll. III, pag. 696.

Sect. 1. Hyalosporæ.

HAINESIA Ell. et Sacc. Syll. III, p. 698.

1. **Hainesia borealis** Ell. et Ev. Journ. Myc. 1889, p. 156. — Acer- 6722
vulis hypophyllis, sparsis, suborbicularibus, erumpentibus, 0,5–0,7 mm. diam. subgelatinosis, flavido-hyalinis, depresso-hemisphæricis, margine atro, lineari, ab epidermide rupta formato cinctis; conidiis suballantoideis, leviter curvis, 5-7 ≃ 1, tenuiter 2-nucleatis, basidiis fasciculatis, subramosis, 20-25 ≃ 1.

Hab. in foliis Galii borealis, Haniloops Columb. brit. Amer. bor. (J. Macoun).

GLŒOSPORIUM Desm. et Mont. — Syll. III, p. 699 *).

1. *In Dicotyledoneis lignosis.*

1. **Glœosporium fulvellum** Speg. Guar. I, p. 157. — Maculis hypo- 6723
phyllis, sparsis, parvulis, 1-2 mm. diam., effuso-indeterminatis, vix manifestis, fulvellis vel subferrugineis, acervulis subcutaneis, 3–8 macularum centro insidentibus, lenticulari-pulvinatis, 150–180 μ. diam., fulvis vel pallide ferrugineis; conidiis ellipticis, 5-6 ≃ 2-2,5, utrinque rotundatis, nubilosis, hyalinis; basidiis non visis.

Hab. ad folia viva Rhamneæ sp. cujusdam prope Peribebuy Brasiliæ.

2. **Glœosporium Paliuri** (Lév.) Karst. et Har. Journ. Bot. 1890, p. 360, 6724
Dothidea Lév. Voy. Demid. p. 107. — Acervulis hypophyllis, immersis, sublenticularibus, perithecioideis, brunneis, minutissimis, confertissimis, maculas minutas, brunneo-nigrescentes formantibus; conidiis cylindraceis, vulgo curvulis, hyalinis, 3-4.5 ≃ 0,5–1.

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*) Sec. cl.am Southworth, in Journ. Myc. VI, pag. 164, *Glœosporium fructigenum* Berk., *Gl. lœticolor* Berk., *Gl. versicolor* B. et C. et *Ascochyta rufo-maculans* Berk., unam et eamdem speciem sistunt. Teste ipsa auct., hyphæ brunneæ septatæ rarius occurrunt in hac specie, transitum ad *Colletotrichum* demonstrantes.

Hab. ad folia Paliuri in Tauria (Lèveillé).

3. **Glœosporium? brasiliense** Speg. F. Puigg. n. 442. — Maculis amphigenis, albis, determinatis, 2-6 mm. diam., acervulis amphigenis, densiuscule sparsis, minutis, 100-120 μ. diam., fuscescentibus; conidiis subcylindraceis, hyalinis, 2-3 ≃ 1; basidiis 1-2-sporis, 5-10 ≃ 1. 6725

Hab. ad folia viva Xanthoxyleæ cujusdam in silvis prope Apiahy Brasiliæ. — Conidia forte catenulata.

4. **Glœosporium Hedycaryæ** Cooke et Mass. Grev. XVIII, pag. 7. — Epiphyllum; maculis orbicularibus, nigricantibus; acervulis solitariis v. gregariis; conidiis oblongis, utrinque rotundatis, granulosis, hyalinis, 18 ≃ 4. 6726

Hab. in foliis languidis Hedycaryæ Cunninghami, Macedon, Victoria Australiæ (Martin).

5. **Glœosporium Opuntiæ** Ell. et Ev. Journ. Myc. 1888, pag. 52. — Acervulis erumpentibus, sparsis, majusculis, demum pallidis; conidiis oblongis, obtusis, continuis, 13-18 ≃ 4-4,5, coacervatis, succineis. 6727

Hab. in Opuntia brasiliensi in calidario Perryville, Mo. Amer. bor. (Rev. C. H. Demetrio).

6. **Glœosporium lunatum** Ell. et Ev. Proc. Acad. Phil. 1891, pag. 82. — Maculis orbicularibus, 1-3 cm. diam.; acervulis erumpentibus, carneis, numerosis; conidiis lunato-fusoideis, 12-20 ≃ 2-3. sæpius uno apice subcrassioribus. 6728

Hab. in foliis vivis Opuntiæ, socia *Sphærellâ Opuntiæ*, S. Antonio, Texas Amer. bor. (Doct. F. Egeling).

7. **Glœosporium amœnum** Sacc. sp. n. — Acervulis late et dense gregariis, subcutaneis, globoso-depressis, minutis, subinde confluentibus, basi sporigera fuliginea, parenchymatica; basidiis stipatis teretibus, guttulatis, hyalinis, 15-20 ≃ 3,5-4; conidiis oblongo-fusoideis, rectis, utrinque rotundatis, nubiloso-guttatis, 20-24 ≃ 4-5, hyalinis, coacervatis dilute incarnatis, in cirros tæniiformes contortos amœne incarnato-aurantios exsilientibus. 6729

Hab. in caulibus, quos forte necat, Cerei nycticali in horto patavino Ital. bor. (Andreas Pigal).

8. **Glœosporium Cerei** Passer. Diagn. F. N. V, n. 47. — Maculis pallidis, subcircularibus; acervulis circinantibus, linearibus, flexuosis, subconfluentibus, epidermide sublevata tectis, dein erumpentibus; basidiis brevissimis, hyalinis, tenuibus, e strato proligero flavido oriundis; conidiis elongatis, apicibus rotundatis, integris, hyalinis, endoplasmate granuloso, opaco, 12-15 ≃ 3-4. 6730

Hab. in Cereo triangulari, Parma in horto botanico parmensi Ital. bor.

9. **Gloeosporium crassipes** Speg. Amp. Ital. pag. 405, Sacc. Fungi It. 1020. — Maculis magnis, subcircularibus, sæpe totam superficiem baccarum occupantibus et ob epidermidem atque strata cellularum corticalium arescentia colore griseo-fuligineo, margine subatro; acervulis subepidermicis, primo applanatis dein subconicis atque vertice epidermidem perforantibus, plus vel minus dense gregariis, 150-250 μ.; conidiis proteiformibus ellipticis v. subnavicularibus, quandoque continuis, hyalinis, non v. uniguttulatis, subinde protoplasmate bipartito spurie uniseptatis visis, 20-30 ≃ 7-8, acrogenis in basidiis crassissimis, continuis, rarius 1-2-septulatis, granulosis, strato pulvinato proligero insidentibus, 40-50 ≃ 5-6,5, hyalinis. 6731

Hab. ad baccas Vitis viniferæ varietatis *Schiava* locis humidulis circa Conegliano Ital. bor.

10. **Gloeosporium Physalosporæ** Cav. Rev. Myc. 1888, n. 40. — Maculis irregularibus lividis arescentibus, acervulis ceraceis, subepidermicis, subconicis, erumpentibus, 140-180 μ. diam.; conidiis cylindraceis vel fusoideis, rectis vel curvulis, hyalinis, plasmate homogeneo farctis, 14-20 ≃ 4-6, basidiis filiformibus, 25-30 μ. long., suffultis. 6732

Hab. in baccis Vitis viniferæ, sociâ *Physalosporâ baccæ* (cujus forte st. conidicus), Stradella Ital. bor.

11. **Gloeosporium pestiferum** C. et M. Gard. Chron. 1891, Jan. 17. — Dense gregarium, pustulatum, subcuticulare, dein erumpens; conidiis cylindraceis, rectis, utrinque rotundatis, 14-15 ≃ 3-4, hyalinis, intus granulosis, dein in massas tuberculariodeas, roseas expulsis; basidiis tenuibus ex basi sporifera pulvinulata oriundis. 6733

Hab. in sarmentis, petiolis, pedunculis baccisque Vitis viniferæ, cui maxime noxium, Brisbane Australiæ. — A *Gl. ampelophago* conidiis multo amplioribus et in massam tuberculariodeam ejectis mox dignoscitur.

12. **Gloeosporium urediniforme** Speg. F. Puigg. n. 445. — Maculis indeterminatis, 1-2 mm. diam., pallescentibus; acervulis epiphyllis, 80-90 μ. diam., minutis, fusco-fulvescentibus; conidiis cylindraceo-obovatis, hyalinis, 4-5 ≃ 1, basidiis papilliformibus fultis. 6734

Hab. ad folia non coriacea Cissi? cujusdam in dumetis prope Apiahy Brasiliæ.

13. **Gloeosporium nitidulum** Speg. F. Puigg. n. 446. — Maculis am- 6735

phigenis, subdeterminatis, 2-5 mm. diam., pallescentibus, acervulis minutis, 150-200 μ. diam., epiphyllis, fuscis; conidiis obovato-ellipsoideis, utrinque minutissime apiculatis, hyalinis, 10-12 ≃ 5, basidiis cylindraceis, 7-10 ≃ 3, concoloribus, monostichis suffultis.

Hab. ad folia viva Cissi? sp. cujusdam in dumetis prope Apiahy Brasiliæ.

14. **Glœosporium Tabernæmontanæ** Speg. F. Guar. nonn. n. 151. — Maculis pallescentibus, determinatis; acervulis minutis, epiphyllis, ochraceis, erumpentibus, 70-80 μ. diam.; conidiis ellipsoideo-cylindraceis, utrinque cylindraceis, majusculis, hyalinis, 12-18 ≃ 4-5. 6736

Hab. in foliis vivis Tabernæmontanæ speciei cujusdam prope Paraguari Brasiliæ.

15. **Glœosporium Citri** Cooke et Mass. in Grev. XIX, p. 92. — Gregarium, erumpens, pallide fuligineum; acervulis pusillis, sæpe confluentibus, epidermide supra irregulariter fissa; conidiis obtuse fusoideis, primo guttatis v. granulosis, 20 ≃ 5-6; basidiis brevibus. 6737

Hab. in ramis Citri, Victoria Australiæ (Martin).

16. **Glœosporium Spegazzinii** Sacc., *Glœosporium citricolum* Speg. F. Puigg. n. 443 (1889) nec C. et M. — Maculis amphigenis, maximis, indeterminatis, albo-cinerescentibus, acervulis amphigenis, laxe gregariis, lenticularibus, minutis, 200-300 μ. diam., fuscescentibus; conidiis cylindraceis, hyalinis, 14-18 ≃ 6-7, utrinque obtusissime rotundatis; basidiis 20-30 ≃ 5, sursum tenuato-truncatis, basi fuscellis. 6738

Hab. ad folia viva Citri Limonum in hortis prope Apiahy Brasiliæ.

17. **Glœosporium citricolum** Cooke et Mass. Grev. XVI, p. 3 (1887). — Maculis atro-fuscis, parvulis, subdiscoideis, sæpe confluentibus; acervulis immersis; conidiis ovalibus, continuis, hyalinis, 8 ≃ 6. 6739

Hab. in foliis Citri, Brisbane Australiæ (Bailey).

18. **Glœosporium hysterioides** Ell. et Ev. Journ. Myc. 1889, p. 154. — Maculis magnis, 1-2 cm. diam., sæpius marginalibus, primo flavidis, dein cinereis, tandem sordide albis, margine flavo, lato, subelevato cinctis, acervulis erumpentibus, nigris, hysteriiformibus; conidiis oblongis, 12-15 ≃ 3,5-5, non incurvis, basidiis brevioribus fultis. 6740

Hab. in foliis Citri, Florida Amer. bor. (Doct. G. Martin). — *G. sphærelloidi* affinis sed basidiis brevioribus maculisque definitis.

19. **Glœosporium Liriodendri** E. et E. Journ. Myc. 1887, p. 128. — Maculis epiphyllis, rotundis, atro-cinctis; acervulis minutis, palli- 6741

dis, innatis; conidiis oblongis, 12-16 ≃ 5, hyalinis, utrinque obtusis, in cirros punctiformes, carneos expulsis.

Hab. in foliis Liriodendri Tulipiferæ, Faulkland, Del. Amer. bor.

20. **Glœosporium Magnoliæ** Passer. Diagn. F. N. IV, p. 14. — Maculis exaridis, griseo-fuscis, late fusco-marginatis; acervulis minutis, punctiformibus, epiphyllis, gregariis; conidiis elongato-ellipticis, interdum 1-2-guttulatis, 8-12,5 ≃ 3,5-4, hyalinis. 6742

Hab. in foliis vivis Magnoliæ fuscatæ, Parma Ital. bor.

21. **Glœosporium Rubi** Ell. et Ev. Journ. Myc. 1888, p. 52. — Amphigenum; maculis magnis, indefinitis, brunneis; acervulis numerosis, parvis; conidiis oblongis, continuis, hyalinis, 10-16 ≃ 4, utrinque sæpius rotundatis, rectis v. raro subcurvis et uno apice paullo angustioribus. 6743

Hab. in foliis vivis Rubi villosi, socia *Uredine nitente*, Starkville, Miss. Amer. bor. (Prof. S. M. Tracy).

22. **Glœosporium necator** E. et E. Journ. Myc. 1887, p. 129. — Maculis caulicolis, pallidis, margine subelevato, atro-cinctis, 2-3 mm. diam., orbicularibus vel ellipticis; conidiis oblongo-ellipsoideis, 5-7 ≃ 3, in massam succineam expulsis. 6744

Hab. in foliis vivis Rubi idæi et fruticosi, Evanston Ill. et Columbia Mont. Amer. bor. — *Gl. veneto* affine sed foliicolum.

23. **Glœosporium minutulum** Br. et Cav. I Funghi parass. fasc. V, n. 110. — Acervulis subcutaneis erumpentibus, nervisequiis, ceraceis, plerumque hypophyllis; basidiis filiformibus, ramosis, 20-30 ≃ 1; conidiis minutissimis, sphæricis, hyalinis, 2-2,5 μ. diam. 6745

Hab. ad nervos foliorum Mespili et Cydoniæ, socia *Ovularia necante*, in horto agrario Pavia (Cavara) et Bologna (Mattei).

24. **Glœosporium prunicolum** E. et E. Journ. Myc. 1887, pag. 129. — Maculis irregularibus, 3-10 mm. diam., atro-rubiginosis, demum deciduis; acervulis innatis, minutis; conidiis ellipsoideis, plerumque 4-6 ≃ 2,5. 6746

Hab. in foliis vivis Pruni virginianæ, Racine, Wis. Amer. bor. (Dr. J. J. Davis).

25. **Glœosporium ovalisporum** E. et E. Proc. Acad. Phil. 1891, p. 83. — Acervulis minutis, dense sparsis, areis magnis, emortuis, dein bruneo-cinerescentibus insertis, in utraque folii pagina erumpentibus; conidiis ovoideis v. citriformibus, uno apice minute apiculatis, 6-10 ≃ 5-7. 6747

Hab. in foliis Pruni serotinæ, London, Canada Amer. bor.

26. **Glœosporium nigricans** Cooke et Mass. in Grev. XIX, p. 91. — Maculis indistinctis; acervulis amphigenis, dense gregariis, dein nigris, convexis, demum pertusis; conidiis ovoideis, hyalinis, 12 ≃ 7. 6748

Hab. in foliis Eucalypti paucifloræ, in montibus australiensibus (C. WALTER).

27. **Glœosporium obtusipes** Sacc. F. Rom. n. 75, f. 14. — Acervulis dense gregariis, subepidermicis, dein erumpentibus, ex ochraceo tandem nigricantibus, $^1/_3$ mm. diam., e globoso depressis; conidiis ex ellipsoideo oblongis, utrinque obtusis, 12-15 ≃ 5-6, hyalinis; basidiis dense fasciculatis, paliformibus, brevibus, 8-12 ≃ 4-5, apice obtuse rotundatis, e flavido hyalinis, continuis. 6749

Hab. in ramis junioribus Bauhiniæ glandulosæ in horto botanico romano Italiæ.

28. **Glœosporium subfalcatum** Bomm. Rouss. Sacc. Contr. Myc. Belg. IV, p. 90. — Acervulis minusculis, prominulis, dense gregariis, epidermide dealbata tectis; conidiis fusoideis, curvatis v. falcatis, hyalinis, 24-30 ≃ 5,5, in cirrum hyalinum exeuntibus; basidiis brevibus, fascicularibus, parum distinctis. 6750

Hab. in ramulis tenellis emortuis Sarothamni scoparii, Ebly Belgii.

29. **Glœosporium revolutum** Ell. et Ev. Journ. Myc, 1889, p. 153. — Acervulis marginem folii dein flaventem et revolutum efficientibus; conidiis oblongis, 12-15 ≃ 3-4,5. 6751

Hab. in foliis Robiniæ Pseudacaciæ, Newfield, N. J. Am. bor. — In statu juniore habitus *Taphrinæ*.

30. **Glœosporium leguminis** C. et H. — Syll. III, p. 717 — var. **Robiniæ** Karst. et Har. Journ. Bot. 1890, p. 360. — Conidiis oblongis, rectis, utrinque attenuatis, eguttatis, 10-12 ≃ 3-4. 6752

Hab. in leguminibus Robiniæ in Neustria Galliæ (LENORMAND).

31. **Glœosporium apocryptum** Ell. et Ev. Journ. Myc. 1888, p. 52. — Acervulis numerosis, minutis, sæpius hypophyllis, areis emortuis et toto folio insidentibus; conidiis oblongis v. anguste ellipsoideis, copiosissimis, 5-12 ≃ 2,5-5. 6753

Hab. in foliis Negundinis fraxifolii, Racine Wis. et Kansas Amer. bor.

32. **Glœosporium Saccharini** Ell. et Ev. Proc. Acad. Phil. 1891, p. 82. — Acervulis minutis, copiosis, haud distinctis; conidiis oblongo-fusoideis, 6-7 ≃ 1,5-3, hyalinis, continuis. 6754

Hab. in foliis Aceris saccharini, Racine Wis. Amer. bor.

(Doct. J. J. Davis). — Folii margo et pars superior fit brunnea sicca, demum omnino destruitur.

33. **Glœosporium campestre** Pass. Diagn. F. N. IV, p. 14. — Maculis 6755
discoideis, flavidis, haud marginatis, centro acervulos semper tectos foventibus; conidiis ellipticis, continuis, haud guttulatis, hyalinis, 6–7,5 × 2,5–3.

Hab. in foliis vivis Aceris campestris, Vigheffio pr. Parmam Ital. bor.

34. **Glœosporium Berberidis** Cooke in Grevillea XIII, p. 98. — Hy- 6756
pophyllum; acervulis gregariis, numerosis, convexis, maculis latis, decoloratis, subinde totum folium occupantibus, insidentibus, pallidis; maculis brunneis, margine rufulo cinctis; conidiis ovoideis, hyalinis, 5 × 3.

Hab. in foliis putrescentibus Berberidis asiaticæ, Kew Britanniæ.

35. **Glœosporium aridum** Ell. et Holw. Journ. Myc. 1887, p. 21. — 6757
Maculis amphigenis, flavido-brunneis, definitis, irregularibus, 2 cm. v. ultra, fragilibus; acervulis hypophyllis, pallidis, numerosis, parvis; conidiis oblongis vel oblongo-ellipsoideis, hyalinis, 2-guttatis, 5–8 × 2,5–3,5.

Hab. in foliis vivis Fraxini americanæ, Racine, Wis. Amer. bor. (Doct. J. J. Davis). — Differt a *G. fraxineo* maculis magnis, irregularibus et a *G. punctiformi* maculis et conidiis minoribus.

36. **Glœosporium punctiforme** Ell. et Ev. Journ. Myc. 1887, pag. 21. 6758
— Maculis flavis, epiphyllis; acervulis hypophyllis, erumpentibus; conidiis oblongis, medio 1-septatis et valide constrictis, utrinque obtusis, 15-22 × 7-8, coacervatim flavidis.

Hab. in foliis vivis Fraxini americanæ, Delaware Amer. bor. (A. Commons).

37. **Glœosporium irregulare** Peck 42 Rep. p. 31. — Maculis amplis, 6759
irregularibus, 1-2 in quoque foliolo, brunneis vel rufo-brunneis; acervulis numerosis, hypophyllis, minutis; cónidiis ellipsoideis, obtusis, 7-10 × 4-5, demum exsilientibus et massam minutam subglobosam albidam formantibus.

Hab. in foliis vivis Fraxini americanæ, Menands Amer. bor.

38. **Glœosporium fraxineum** Peck in Thirty-fifth Rep. St. Mus. Bot. 6760
1884, p. 137. — Maculis numerosis, parvis, pallide rubris, obscure vel purpureo-marginatis, centro albicantibus; acervulis raris; conidiis oblongo-ellipsoideis, 5-6 × 4, sæpe binucleatis, hyalinis.

Hab. in foliis vivis Fraxini pubescentis, Albany Americæ borealis.

39. **Gloeosporium decipiens** E. et E. Journ. Myc. 1887, pag. 128. — 6761
Acervulis majusculis; conidiis elongato-cylindraceis, in massam expulsis, 22-50 × 3-5, endochromate interdum medio subdiviso (an demum 1-septatis?).

Hab. in foliis vivis Fraxini americanæ, Manhattan, Kansas Amer. bor. (W. T. Swingle). — «An *Marsoniæ* species?».

40. **Gloeosporium Phillyreæ** Pass. Diagn. F. N. IV, n. 128. — Acer- 6762
vulis amphigenis, in maculis expallentibus, dein effusis, sparsis, disciformibus, albidis; conidiis cylindricis, curvis v. sigmoideis, rarius rectis, basidiis bacillaribus subæquilongis fultis, hyalinis, biguttulatis, 12,5-15 × 2,5.

Hab. in foliis languidis Phillyreæ mediæ, in horto botanico parmensi, Ital. bor.

41. **Gloeosporium crocatum** Sacc. F. Abyss. n. 41, fig. 7 *a, f-g.* — 6763
Acervulis hinc inde dense gregariis, immersis, epidermidem leviter pustulatim elevantibus, globoso-lenticularibus, vix 0,5 mm. diam., aurantiacis; conidiis copiosissimis, cylindraceo-oblongis, utrinque præsertim apice rotundatis, rectis vel leviter curvis, 2-3-guttatis nubilosisque hyalinis 23-26 = 5-6; basidiis e basi proligera parenchymatica, dilute aurea oriundis, cylindraceis, 12-15 × 3 flavidis; cirris conidiorum longe exsertis, filiformibus, contortis, amœne crocatis.

Hab. ad ramos languidos Euphorbiæ Ammak, sociâ *Hyponectriâ Penzigianâ* in Erythræa Afr. or. (O. Penzig).

42. **Gloeosporium Pelargonii** Cooke et Mass. Grev. XVIII, p. 20. — 6764
Hypophyllum; acervulis sparsis, bullatis, pallidis; conidiis teretioblongis, utrinque rotundatis, hyalinis, 20 × 4-5.

Hab. in foliis Pelargonii culti, Kew Britanniæ.

43. **Gloeosporium carpogenum** Cooke et Hark. in Grevillea XIII, p. 113. 6765
— Acervulis innato-erumpentibus, pallidis, ore lacerato; conidiis subellipticis v. clavatis, utrinque rotundatis, hyalinis, 18 × 6-7.

Hab. in capsulis Gossypii arborei in California (Harkness).

44. **Gloeosporium Bignoniæ** Pass. Erb. cr. ital. II, n. 1085. — Maculis 6766
epiphyllis irregularibus, angulosis, albidis margine atro-sanguineo cinctis, acervulis minutissimis, aggregatis, albidis v. senio fuscatis; conidiis lanceolatis, integris, hyalinis, basidiis brevibus (?) fultis.

Hab. in foliis languescentibus hibernantibus Bignoniæ capreolatæ, socio *Cladosporio* in horto botanico Parma Ital. bor.

45. **Glœosporium harposporum** Bres. et Sacc. in Berl. et Bres. Micr. Trid. pag. 79. — Acervulis gregariis, globoso-depressis, 0,2 mm. diam., epidermide dein minute fissa velatis, pallidis; conidiis falciformibus, utrinque acutis, 18-20 ≃ 4-5, granulosis, hyalinis; basidiis indistinctis. 6767

Hab. in foliis emortuis Visci albi in Val di Sole pr. Trento.

46. **Glœosporium Mezerei** Cooke in Grev. XIX, pag. 8. — Acervulis gregariis, parvis, brunneis, centro pallidioribus, subinde confluentibus; conidiis ellipsoideis vel amygdaliformibus, 1-2- v. pluriguttatis, 15 ≃ 6, continuis, hyalinis, primo basidiis brevissimis fultis. 6768

Hab. in foliis languidis Daphnes Mezerei, Kew Britanniæ.

47. **Glœosporium Ledi** Schroet. Pilze Labrad. pag. 20. — Acervulis epiphyllis, 0,3 mm. diam., nigricantibus, solitariis v. 2-5 in macula albida late brunneo-limbata; conidiis cylindraceo-clavatis, 11-13 × 4, hyalinis; basidiis rectis, brevibus. 6769

Hab. in foliis Ledi latifolii, Okak in Labrador (Meyer).

48. **Glœosporium guaraniticum** Speg. Guar. I, pag. 156. — Maculis amphigenis, determinatis, repando-orbicularibus, 2-6 mm. diam., subarescentibus pallideque fulvescentibus, zona obscuriore, strictissima, vix perspicua limitatis, sæpius centro cinerescentibus; acervulis epiphyllis, sparsis, subcutaneis, vix pulvinatis, 80-100 μ. diam., fulvescentibus; conidiis elliptico-inæquilateralibus vel cymbiformibus, utrinque rotundatis, 7-8 ≃ 1,5, hyalinis, in basidiis filiformibus, 10-15 × 0,5-0,7, hyalinis, solitarie acrogenis. 6770

Hab. ad folia viva Sapindaceæ sp. in silvis prope Guarapí Brasiliæ.

49. **Glœosporium Diospyri** E. et E. Journ. Myc. 1887, pag. 129. — Acervulis innatis, in greges minutos, pallidos, tuberculiformes, epiphyllos erumpentibus, areis olivaceo-brunneis insidentibus; conidiis ovoideis, granulosis, 6-14 ≃ 5-7. 6771

Hab. in foliis Diospyri virginiani, Faulkland Del. Amer. bor. (A. Commons).

50. **Glœosporium fagicolum** Pass. in litt. Brun. in Rev. Myc. 1886, pag. 206. — Maculis irregularibus, brunneis vel brunneolis, demum siccitate centro albo-cinereis, margine brunneo cinctis; conidiis oblongo-ovoideis, hyalinis, 12,5 × 4. 6772

Hab. in foliis languescentibus Fagi silvaticæ, Saintes Galliæ. — Conidiis minoribus a *G. Fagi* distinctum.

51. **Glœosporium rostratum** E. et E. Journ. Myc. 1887, pag. 129. — Maculis amphigenis, subrotundis 1-3 mm. diam., pallide rubigino- 6773

sis, margine angusto et obscuriore; acervulis minutis, sæpius centro macularum dispositis, epiphyllis, succineis; conidiis cylindraceis, curvis, 35-45 ≃ 2,5-3, granulosis, guttatis (demum 3-septatis?).

Hab. in foliis vivis Coryli rostratæ, Columbia britann. Amer. bor. (Prof. John Macoun). — «An *Septoglœi* species?»

52. **Gloeosporium septorioides** Sacc. Misc. Myc. II, p. 16, tab. XI, f. 34[b], *Marsonia quercina* Wint. Hedw. 1884, p. 171. — Maculis albidis, subtus ochraceis, atro-cinctis; conidiis bacillari-fusoideis, curvatis, utrinque obtusiusculis, 20 ≃ 1,7-2, hyalinis, semper continuis [etiam addita ope jodii et kalii]. 6774

Hab. in foliis Quercus imbricatæ, Missouri Amer. bor. (C. H. Demetrio, comm. Winter).

53. **Gloeosporium Suberis** Roll. Bull. Soc. Myc. 1891, p. 212, t. XIV, f. 5. — Acervulis punctiformibus, sparsis, rotundis, irregulariter pulvinatis, atris, 1 mm. sæpius lat., sine macula; conidiis curvatis, multiguttatis, sæpius supra acutis et infra obtusis, 50 ≃ 3,75; basidiis filiformibus, simplicibus, fasciculatis, 30 ≃ 1, hyalinis. 6775

Hab. ad corticem Quercus Suberis, Golfe Jouan Galliæ merid. — «Ob sporulas longe fusoideas a typo generis recedit».

54. **Gloeosporium canadense** Ell. et Ev. Journ. Myc. 1889, p. 153 et Proc. Acad. Phil. 1891, p. 83. — Maculis amphigenis, irregularibus, subrotundis, circ. 0,5 cm. diam., centro pallide rubiginosis, margine lato, sordide brunneo, subdefinito in epiphyllo cinctis, fere indefinitis in hypophyllo; acervulis sparsis, demum atris, 180-200 μ. diam., sæpius in epiphyllo erumpentibus; conidiis ovato-oblongis, hyalinis, 10-14 ≃ 3,5-4,5. 6776

Hab. in foliis vivis Quercus albæ, London, Canada et Wisconsin Amer. bor. (J. Dearness).

55. **Gloeosporium gallarum** Rich. Cat. Champ. Marn. n. 1808. — Acervulis epidermide nigrificata tectis; conidiis cylindraceis, 6-guttulatis. 6777

Hab. in gallis Quercus in silva St.-Amand, Aulnay Galliæ.

56. **Gloeosporium Caryæ** Ell. et Dearness Proc. Acad. Phil. 1891, pag. 82. — Maculis suborbicularibus, supra rubescenti-brunneis, subtus saturatius coloratis, 1-2 cm. diam. vel, dum confluentibus, amplioribus, subindefinite marginatis; acervulis hypophyllis, numerosis, parvis, 75-150 μ. diam., superficialibus, brunneis; conidiis allantoideis, continuis, 7-10 ≃ 1,5-2. 6778

Hab. in foliis Caryæ albæ, London, Canada Americæ borealis (Dearness).

57. **Glœosporium Celtidis** Ell. et Ev. Acad. Phil. 1891, p. 82. — Ma- 6779
culis sæpius marginalibus, plus minus continuis, raro dimidium v. totum folium occupantibus, sordide brunneis, margine angusto, definito, saturatius colorato limitatis extus flavido-cinctis, acervulis numerosis, circ. 200 μ. diam.; conidiis fusoideo-oblongis vel ovato-oblongis, continuis, 10-12 ≃ 4-5, hyalinis, sæpius subtus in massulas parvas, aurantiacas erumpentibus.

Hab. in foliis Celtidis occidentalis, London, Canada Amer. bor. (J. Dearness).

58. **Glœosporium Elasticæ** Cooke et Mass. Grev. XVIII, p. 74. — 6780
Acervulis minutis, sparsis, dein nigricantibus; conidiis ellipsoideis v. elongatis, utrinque rotundatis, hyalinis, granulosis, interdum guttatis, 12-20 ≃ 5.

Hab. in foliis Fici elasticæ in horto botanico, Glasgow Britanniæ (D. A. Boyd).

59. **Glœosporium cytosporeum** Pass. in Erb. critt. ital. II, n. 1182. 6781
— Epiphyllum; maculis orbicularibus brunneis, pustulas vix prominulas subcircinatim digestas albidas foventibus; conidiis minutissimis, cylindricis, continuis, hyalinis.

Hab. in foliis languidis Populi canescentis in horto botanico Parma Ital. bor.

60. **Glœosporium dubium** Bäuml. F. Schemn. pag. 8. — Maculis hy- 6782
pophyllis, exaridis, sordide griseis, variis; acervulis cuticula velatis dein erumpentibus, fuscis, e rotundo angulosis, gregariis; conidiis ovato-oblongis vel obpiriformibus non vel lenissime constrictis, 16-22 ≃ 6-8, hyalinis; basidiis hyalinis, 4-6 ≃ 3.

Hab. in foliis Populi tremulæ pr. Prencow Hungariæ.

61. **Glœosporium Taxi** (Duby) Karst. et Har. Journ. Bot. 1890, p. 361, 6783
Sphæria Duby Bot. Gall. II, pag. 705. — Acervulis amphigenis, gregatim sparsis vel parallelis, emergentibus, rotundatis, ovoideis vel elongatis, epidermide nigrificata velatis, dein rimose apertis, disco pallido vel rufescente-pallido, circ. 0,3 mm. diam.; conidiis cylindraceis, hyalinis, 3-4 ≃ 0,5; basidiis subnullis.

Hab. ad folia Taxi in Gallia (De Candolle).

62. **Glœosporium Araucariæ** Karst. et Har. Journ. Bot. 1890, p. 360. 6784
— Acervulis sparsis, epidermide tectis, ovatis, oblongatis vel suborbicularibus, depressis, atratis, 0,1-0,4 mm. diam.; conidiis oblongis vel elongatis, subfusoideis, rectis, granuloso-farctis, hyalinis, 15-21 ≃ 5-8; basidiis fasciculatis, simplicibus, 5-10 μ. long.

Hab. ad folia Araucariæ e Nova Caledonia, in calidariis Musei parisiensis Galliæ.

63. **Gloeosporium Encephalarti** Cooke et Mass. Grev. XVI, p. 102. — 6785
Acervulis sparsis, numerosis, epidermide elevata, brunnea vel nigra tectis, centro pertuso, pallido; conidiis ellipsoideis, continuis, hyalinis, 8 ≃ 5.

Hab. in foliis Encephalarti horridi, Kew Britanniæ.

64. **Gloeosporium Denisoni** Sacc. et Berl. Misc. Myc. II, pag. 10. — 6786
Acervulis gregariis, minute pustulatis, epidermide demum vix perforata tectis, intus lutescentibus; conidiis oblongo-cylindraceis, utrinque obtusiusculis, leniter curvis, 6–8 ≃ 1–5, interdum 2-guttulatis, hyalinis; basidiis bacillaribus, simplicibus, raro furcatis, 20–24 ≃ 1,5, e basi stromatica, minute cellulosa, fuligineo-ochracea oriundis.

Hab. in epicarpio Encephalarti (Macrozamiæ) Denisoni in Queenslandia (F. Mueller).

65. **Gloeosporium glaucum** Cooke et Mass. Grev. XVI, p. 75. — Ma- 6787
culis suborbicularibus, epiphyllis vel amphigenis, glaucescentibus, subfarinosis; acervulis minutis; conidiis profusis, mox extrusis, stratum effusum farinaceum efformantibus, globosis, hyalinis, 6–7 μ. diam.

Hab. in foliis vivis, Brisbane Australiæ (Bailey).

66. **Gloeosporium albi-macula** Speg. F. Puigg. n. 444. — Maculis or- 6788
bicularibus, amphigenis, albis, determinatis, 3-20 mm. diam.; acervulis minutis, epiphyllis, fuscis, 120–150 μ. diam.; conidiis ellipsoideo-obovatis, hyalinis, 14–16 ≃ 6–7.

Hab. ad folia subcoriacea plantæ cujusdam ignotæ in nemorosis prope Apiahy Brasiliæ.

67. **Gloeosporium marginale** Speg. Guar. I, p. 157. — Maculis strictis, 6789
0,5 mm. lat., ad marginem folii insertis, determinatis, albo-griseis, zona rugulosa, obscure fulvescente limitatis; acervulis dense sparsis, atris, subcutaneis, orbicularibus, 120–150 μ. diam., sæpe confluentibus; conidiis ellipsoideis vel ovoideis, 10–13 ≃ 5–5,5, utrinque latissime rotundatis, hyalinis, nubilosis; basidiis papilliformibus, 5–6 ≃ 3–4, acrogenis.

Hab. in foliis plantæ non indicatæ in Brasilia.

II. *In Dicotyledoneis herbaceis.*

68. **Gloeosporium Argemones** E. et E. Journ. Myc. 1887, p. 129. — 6790
Maculis amphigenis, definitis, suborbicularibus supra sordide gri-

seis, subtus atro-purpureis et subzonatis, sæpius circ. 0,5 cm. diam., margine subelevato, angusto cinctis; acervulis minutis, sparsis, subtus sæpius erumpentibus; conidiis in massas minutas, flavidas, succineas expulsis, subcylindraceis, arcuatis, hyalinis, granulosis, guttulatis, sæpius uno apice angustioribus, 22–40 ≃ 2,5–3.

Hab. in foliis vivis Argemones platyceratis, Manhattan, Kansas Amer. bor. (W. T. Swingle).

69. **Gloeosporium microscopicum** Karst. et Har. Journ. Bot. 1889, p. 207. — Maculis nullis; acervulis sparsis, subcutaneo-erumpentibus, rotundatis, minutissimis, vix 0,1 mm. lat., fuligineis v. succineis, dein apertis, intus pallidis; conidiis fusoideo-bacillaribus, curvulis, vulgo guttulis minutis præditis, hyalinis, 20–30 ≃ 2–4; basidiis non visis. 6791

Hab. ad carpella arida Camelinæ silvestris in Arvernia Galliæ.

70. **Gloeosporium cladosporioides** Ell. et Halst. Journ. Myc. 1890, p. 34. — Acervulis subepidermicis, fere nigris, circ. 35 μ. diam., subepidermicis, gregariis; hyphis fasciculatis, continuis, supra dentatis, hyalinis, dein brunneis; conidiis oblongis, hyalinis, vix guttatis, 10–14 ≃ 3,5–4,5. 6792

Hab. in caulibus et foliis Hyperici mutili, Metuchen, N. J. Amer. bor.

71. **Gloeosporium Gei** Trail Suppl. Myc. Scot. n. 3050. — Acervulis brunneis, 200–300 μ. diam., sparsis, poro dehiscentibus; conidiis numerosissimis, hyalinis, fusoideis v. ellipsoideis acutis, 7–9 ≃ 2–2,5, rectis curvulisve, continuis, hyalinis vel 2-guttatis; basidiis stipatis, tenuibus. 6793

Hab. in caulibus emortuis Gei urbani pr. Aberdeen Scotiæ.

72. **Gloeosporium Glottidii** Ellis et Mart. in Journ. of Myc. 1885, p. 114. — Maculis margine purpurascenti obscure limitatis; acervulis sparsis, numerosis, siccitate atris, suborbicularibus, 250 μ. diam.; conidiis forma variis, ovoideis, oblongis et cylindraceis, 1–3-nucleatis, longioribus subinde curvulis, 9-16 × 3; basidiis brevibus, gracilibus, conidiorum breviorum longitudinem æquantibus. 6794

Hab. in fructibus Glottidii floridani, Florida Amer. bor. (Prof. F. L. Scribner).

73. **Gloeosporium Morianum** Sacc. in Mori Enum. dei Funghi di Modena Giorn. Bot. Ital. 1886, n. 1, p. 23. — Acervulis gregariis, epiphyllis, rarius hypophyllis, punctiformibus, fuscescentibus, 100–120 μ. diam., diu epidermide velatis, centro translucentibus; conidiis ob- 6795

longo-cylindraceis, utrinque rotundatis, rectiusculis, 6-7 ≃ 1,5, hyalinis; basidiis fasciculatis, filiformibus, subflexuosis, 10-14 ≃ 1,5, subhyalinis.

Hab. in foliis languidis Medicaginis sativæ, maculas ochraceas efformans, in Italia bor. (Mori).

74. **Gloeosporium Medicaginis** E. et K. Journ. Myc. 1888, p. 104. — 6796
Acervulis sparsis, innatis, nigricantibus, majusculis, amphigenis, sed supra magis prominulis, subtus apertis; conidiis oblongis, cylindraceis, granulosis, subhyalinis, sæpius medio distincte angustatis, 15-20 ≃ 3-4.

Hab. in foliis petiolis et stipulis Medicaginis sativæ, Manhattan, Kansas Amer. bor.

75. **Gloeosporium Viciæ** Fautrey et Roum. Rev. Myc. 1890, p. 168. 6797
— Acervulis subcutaneis, læte roseis; conidiis concoloribus, irregularibus, circ. 16 × 12; basidiis non visis.

Hab. in caulibus siccis Viciæ Craccæ, Noidan Côte-d'Or Galliæ (F. Fautrey).

76. **Gloeosporium Phaseoli** Rich. Cat. Champ. Marn. n. 1809. — 6798
Acervulis oblongo-ovoideis, pedicellatis, epidermide brunnea, parce pilosis.

Hab. in leguminibus et caulibus Phaseoli, St.-Amand Galliæ.

77. **Gloeosporium ramosum** Ell. et Ev. Journ. Myc. 1889, p. 154. — 6799
Maculis orbicularibus, flavido-albis, circ. 1 mm. diam.; acervulis innatis, solitariis v. 2-4 in quaque macula, supra subprominulis et nigris; conidiis oblongo-cylindraceis, subcurvis, obtuse acuminatis, granulosis, continuis, 12-22 ≃ 3-3,5; basidiis crassis, ramosis, conidio æquilongis.

Hab. in foliis et caulibus Polygalæ polygamæ, Newfield N. J. Amer. bor.

78. **Gloeosporium Helichrysi** Wint. in Hedw. 1885. — Acervulis am- 6800
phigenis, subcutaneis, demum rimose erumpentibus, applanatis, maculas minutas, rotundato-angulatas, atras, nitidas, zona indeterminata, lutea, sublata circumdatas, sæpe confluentes, $1^1/_4$-$1^3/_4$ mm. latas formantibus; conidiis breve cylindricis, utrinque rotundatis, continuis, hyalinis, 14-20 × 4-5, basidiis brevibus, subcylindricis, hyalinis suffultis.

Hab. ad folia subviva Helichrysi (petiolati?), Somerset-East, Prom. Bon. Spei (Mac-Owan).

79. **Gloeosporium subglobosum** Cooke et Mass. Grev. XVI, p. 3. — 6801
Epiphyllum; acervulis sparsis, pallidis, inconspicuis; basidiis bre-

vibus; conidiis subglobosis, in massam gelatinosam erumpentibus, 10 ≃ 8.

Hab. in foliis Goodeniæ ovatæ, Victoria Australiæ (F. Campbell).

80. **Glœosporium Epilobii** Pass. Fung. Gall. nov. in Jour. d'Hist. nat. Bord. 1885, n. 4, p. 55. — Maculis brunneis, versiformibus; acervulis minutis, subcutaneis; sporulis phomatoideis, biguttulatis, 5 × 1½, hyalinis. 6802

Hab. in foliis Epilobii angustifolii in hortis cultis prope Saintes in Gallia (Brunaud).

81. **Glœosporium Rhinanthi** Karst. et Har. Journ. Bot. 1890, p. 361. — Acervulis sparsis, epidermide velatis, dein per eam fissam erumpentibus, elongatis v. ovoideis, nigrescentibus, ambitu fuligineo, nucleo pallido, circ. 0,2 mm. lat.; conidiis fusoideo-elongatis, rectis, guttulatis, hyalinis, 9-15 ≃ 2-3; basidiis filiformibus, fasciculatis, simplicibus, curvatis, 21-30 ≃ 0,5-1. 6803

Hab. ad caules Rhinanthi hirsuti Méry-sur-Seine Galliæ.

82. **Glœosporium æcidiophilum** Speg. Guar. I, p. 156. — Maculis epiphyllis v. ramulicolis, minutis, 0,5–1 mm. diam., fuscescentibus, vix manifestis, effuso-indeterminatis; acervulis 2-5 stipatis, e globoso difformibus, 80–90 μ. diam., pulvinatis, epidermide velatis, vix perspicuis; conidiis ellipsoideis, rectis v. inæquilateralibus, 10 ≃ 2,5, utrinque subtruncato-rotundatis (an catenulatis?), hyalinis, in basidiis filiformibus, crassiusculis, 12-20 ≃ 1,5-2, hyalinis, acrogenis. 6804

Hab. ad folia viva et ramos Hyptidis sp. cujusdam, socio Æcidio Gibertii pr. Arroyo-Guazù in silva Caa-Guazù Brasiliæ. — Forte in *Æcidio* parasiticum.

83. **Glæosporium pruinosum** Bäuml. Myc. Not. p. 2. — Maculis pulvereo-cinereis, fusco-cinctis; acervulis hypophyllis, 0,2-1 mm. diam.; conidiis exsilientibus et macularum superficiem densissime cinereo-pruinosam efficientibus, rectis v. subrectis, utrinque rotundatis, guttulatis v. nubilosis 14-18 × 3-4, hyalinis; basidiis 10 ≃ 2, hyalinis. 6805

Hab. in foliis vivis Veronicæ officinalis pr. Pressburg Hungariæ.

84. **Glœosporium Vincetoxici** Fautrey Rev. Myc. 1890, p. 23. — Acervulis numerosissimis, gregariis, minutis, oblongis, 10–13 ≃ 7–10, erumpentibus; conidiis cylindraceis, utrinque attenuato-rotundatis, curvis, guttatis, 32–35 ≃ 3–4; basidiis simplicibus, brevibus, 8–10 × 3. 6806

Hab. in caulibus vetustis Vincetoxici officinalis, Friches de Charny, Côte-d'Or Galliæ (F. Fautrey).

85. **Glœosporium Chenopodii** Kast. et Har. Journ. Bot. 1889, p. 207. 6807
— Maculis nullis; acervulis sparsis, applanato-disciformibus, epidermide nigrificata tectis, dein denudatis, pallidis, orbicularibus v. oblongatis, 0,2 mm. lat.; conidiis ellipsoideis, eguttatis, 9–8 ≈ 3–4.

Hab. ad caules emortuos Chenopodii albi in Arvernia Galliæ.

86. **Glœosporium Achatocarpi** Speg. Guar. I, p. 156. — Maculis amphigenis, orbicularibus, 1-2 mm. diam., determinatis, primo fuscis, dein griseo-arescentibus, areola nigrescente, stricta cinctis, demum frustulatim deciduis; acervulis subcutaneis, lenticularibus, centro macularum laxe insidentibus, fuscidulis, vix perspicuis, 50–60 μ. diam., epiphyllis; conidiis cylindraceis, utrinque rotundato-truncatis (an primo catenulatis?), 5-7 ≈ 1, hyalinis; basidiis nullis. 6808

Hab. ad folia viva Achatocarpi, sp. pr. Villa Rica Brasiliæ.

III. *In Monocotyledoneis.*

87. **Glœosporium nubilosum** Pass. Diagn. F. N. IV, p. 14. — Acervulis sparsis v. laxe gregariis, subcutaneis, fuscis, epidermidem pustuliformi-sublevatam vix centro perforantibus; conidiis ovalibus v. amygdaliformibus, 1-2-guttulatis, nubilosis, hyalinis, 8–10 ≈ 5-6; basidiis obscuris. 6809

Hab. in rachi Phœnicis dactyliferæ, Ceresolo prope Rapallo, Genova Ital. bor. (G. M. Molfino).

88. **Glœosporium Allescheri** Bresad. in Allesch. et Schnabl. F. Bav. n. 191. — Acervulis dense gregariis, pulvinato-depressis, ovatis v. elongatis, fuscis, nucleo humectato albido-griseo, 0,5-2 mm. long., subcutaneo-erumpentibus; basidiis dense fasciculatis, ramosis, septatis, 60–100 μ. long., sursum hyalinis, 3 μ. cr., deorsum 6-7 μ. cr.; conidiis hyalinis, subcylindraceis, utrinque obtusis, 13-16 ≈ 4. 6810

Hab. in caulibus emortuis Chamœdoreæ elatioris, in horto botanico Monacensi (Allescher). — *Gl. sphærelloidi* affine.

89. **Glœosporium Musarum** Cooke et Mass. Grev. XVI, p. 3. — Acervulis innato-erumpentibus, gregariis, subroseis; conidiis elongato-ellipsoideis, utrinque rotundatis, continuis, hyalinis, 10–12 ≈ 4, intus granulosis. 6811

Hab. in fructibus Musæ, Brisbane Australiæ. (Bailey).

90. **Glœosporium yuccogenum** Ell. et Ev. Journ. Myc. 1887, p. 21. — Acervulis gregariis, parvis, erumpentibus, pallidis; conidiis cylindraceis, sæpius subcurvulis, granulosis, nonnullis 1-2-guttatis, utrinque obtusis, 20-25 ≈ 4-6. 6812

Hab. in foliis vivis Yuccæ filamentosæ, Columbia Mo. Amer. bor. (B. T. Galloway).

91. **Gloeosporium veratrinum** Allesch. in Allesch. et Schnabl. F. bav. n. 190. — Maculis nullis; acervulis epiphyllis, epidermide tectis, sparsis, gregariis vel seriatim dispositis, brunneis; conidiis cylindraceis, rectis, utrinque obtusis, fere truncatulis, plerumque 4-guttulatis, hyalinis, circ. 18-25 ≃ 2,5-3,5. 6813

Hab. in foliis languidis Veratri Lobeliani, sociâ *Phyllostictâ melanoplacâ*, Oberammergau Bavar. super. (Allescher).

92. **Gloeosporium paludosum** Ell. et Gall. Journ. Myc. 1890, p. 32. — Maculis amphigenis, orbicularibus vel ellipsoideis, 0,5-1 cm. diam. vel, si confluentibus, latioribus, sordide brunneis, subzonatis, margine obscuriore, subindefinito; acervulis minutis, 65-75 μ. diam., supra plerumque erumpentibus; conidiis oblongis, granulosis, 18-22 ≃ 6-7. 6814

Hab. in foliis Peltandræ virginicæ, Virginia (D. G. Fairchild) et Wilmington, Del. (A. Commons) Amer. bor.

93. **Gloeosporium Vanillæ** Cooke in Grevillea XV, pag. 18. — Epi- vel hypophyllum; acervulis gregariis, minutis, punctiformibus, epidermide nigrefacta tectis; conidiis elongato-ellipsoideis, utrinque rotundatis rectis, intus granulosis, 18-25 ≃ 5-6. 6815

Hab. in foliis emortuis Vanillæ, Antioquia Columbiæ (C. Patin).

94. **Gloeosporium pallidum** Karst. et Har. Journ. Bot. 1890, p. 361. — Acervulis sparsis v. subgregariis, per epidermidem varie fissam v. circumscissam erumpentibus, lenticularibus v. planis, pallidis, circ. 0,2 mm. lat.; conidiis oblongatis, rectis, hyalinis, utrinque obtusis, 10-16 ≃ 3-6; basidiis nullis. 6816

Hab. ad folia Orchideæ cujusdam e Madagascar, cultæ in calidariis Musei parisiensis Galliæ.

95. **Gloeosporium Orchidearum** Karst. et Har. Journ. Bot. 1890, p. 360. — Acervulis amphigenis, epidermide fere nigrificata, dein rima elongata, nonumquam flexuosa dehiscente velatis, difformibus, minutis; conidiis subsessilibus, fusoideo-elongatis, subinde inæqualibus, rectis, hyalinis, 20-25 ≃ 5-7. 6817

Hab. ad folia Orchideæ cujusdam, Mexico.

96. **Gloeosporium minimum** Karst. et Har. Journ. Bot. 1890, p. 360. — Acervulis sparsis, amphigenis, suborbicularibus, perithecioideis, epidermide subnigrificata, dein rimose dehiscente v. circumscisso-soluta velatis, discoideis, atratis, punctiformibus; conidiis fusoideo- 6818

elongatis, rectis, continuis, hyalinis, 9–11 ≈ 2; basidiis simplicibus, continuis, 20–25 μ. long.

Hab. ad folia Anthurii Hookerii e Brasilia, culti in calidariis Musei parisiensis Galliæ.

97. **Glœosporium Epicladii** Cooke et Mass. in Grev. XIX, p. 92. — Maculis irregularibus, nigris; acervulis centro maculis insertis, poro centrali, pallido donatis; conidiis in massam aurantiam, subgelatinosam exeuntibus, fusoideis, obtusis, hyalinis, 22–25 ≈ 9-10, granuloso-farctis. 6819

Hab. in Cladio tetraquetro, Port Phillip Australiæ (C. Frenck).

IV. *In Acotyledoneis.*

98. **Glœosporium leptospermum** Peck 43 Rep. p. 32. — Maculis flavidis minutis, irregularibus, subindeterminatis; acervulis amphigenis, minutis, rotundis, oblongis vel irregularibus, erumpentibus, brunneis vel nigricantibus; conidiis subcylindraceis, leviter acutatis, hyalinis, 20-25 ≈ 4. 6820

Hab. in frondibus vivis Pteridis aquilinæ, Sevey Amer. bor. — Conidiis angustis ad *Cylindrosporium* vergit.

99. **Glœosporium Phegopteridis** Frank Krankh. Pfl. p. 611. — Maculis irregularibus, brunneis; acervulis hypophyllis; conidiis in massam albidam exeuntibus, subinæquilateraliter ovatis, subtus truncatis, supra subfalcatis, conico-acuminatis, continuis, hyalinis. 6821

Hab. in frondibus Phegopteridis in Helvetia.

99. **Glœosporium Equiseti** Ell. et Ev. Journ. Myc. 1888, pag. 52. — Acervulis 1 mm. lat., subconfluentibus, cuticula nigrificata, mox, margine excepto, albescente tectis; conidiis cylindraceis, subcurvis, multiguttatis, 25–35 ≈ 3, in massas succineas expulsis. 6822

Hab. in caulibus vivis Equiseti levigati, Grape Creek Columbiæ Amer. bor. (Rev. C. H. Demetrio).

100. **Glœosporium Hariot**i Sacc. *Glœosporium Equiseti* Karst. Rev. Myc. 1890, n. 47, nec E. et Ev. — Acervulis sparsis, irregularibus, vulgo rotundatis, innatis, depressis, sub epidermide nidulantibus, brunneis, circ. 150 μ. lat.; conidiis ellipsoideis, continuis, chlorino-hyalinis, eguttulatis, 12-18 ≈ 6-7; basidiis brevissimis. 6823

Hab. ad caules Equiseti hyemalis emortuos in Arvernia Galliæ (P. Hariot).

MYXOSPORIUM Link — Syll. III, p. 722.

1. **Myxosporium microsporum** Cooke et Hark. in Grev. XIII, p. 113. 6824
— Acervulis laxe gregariis, subcutaneo-erumpentibus, transverse-oblongis, vix 1 mm.; conidiis ovoideis, rectis, hyalinis, 4 ≃ 3.

Hab. in ramis Piri in California (HARKNESS).

2. **Myxosporum tumescens** Bomm. Rouss. Sacc. Contr. Myc. Belg. 6825
IV, p. 90. — Acervulis subepidermicis, dein erumpentibus, solitariis vel 2-3-gregariis, pulvinatis, nigricantibus; conidiis hyalinis, cylindraceo-ellipsoideis, 10-12 ≃ 4-5,5, biguttatis, in cirrum griseolum sæpe ejectis.

Hab. in ramulis Cratægi Oxyacanthæ, socio *Phacidio verecundo*, cujus forte status conidicus, Groenendael Belgii.

3. **Myxosporium Mespili** Karst. et Har. Journ. Bot. 1890, p. 361. — 2826
Acervulis epidermide demum fissa tectis, orbicularibus, pallidis, dein fuscescentibus, applanatis, minutis; conidiis oblongatis vel clavulato-oblongatis, intus granulosis, hyalinis vel subhyalinis, rectis, 20-26 ≃ 7-10; basidiis filiformibus, circ. 20 ≃ 2-4.

Hab. in ramis Mespili prope Paris Galliæ (TULASNE).

4. **Myxosporium Robiniæ** Karst. et Har. Journ. Bot. 1890, p. 362. 6827
— Acervulis sparsis, disciformibus, epidermide demum scissa tectis, pallidis, circ. 0,8 mm. lat.; conidiis oblongatis, eguttulatis, hyalinis, 3 ≃ 1.

Hab. ad ramos emortuos Robiniæ, Méry-sur-Seine Galliæ.

5. **Myxosporium propinquum** Sacc. Bomm. et Rouss. Fl. myc. Belg. II, 6828
pag. 44. — Acervulis primo subepidermicis, dein erumpentibus, sparsis vel geminatis, leniter prominulis, centro depressis, griseolis; conidiis ovoideo-oblongis, basi attenuatis, 25-36 ≃ 10-12, hyalinis, granulosis demum raro simulate 1-septatis, basidio diu hærentibus; basidiis sursum tenuatis, subinde inæqualibus vel flexuosis, 24 ≃ 6

Hab. in truncis et ramulis Ilicis Aquifolii, Ixelles Belgii. — *M. griseo* affine.

6. **Myxosporium Nielianum** Karst. et Roum. Rev. Myc. 1890, n. 47. 6829
— Acervulis subgregariis, depressis, epidermide dein varie fissa, subinde nigrificata tectis, linea nigra orbiculari vel flexuosa circumscriptis, 1-2 mm. latis; conidiis oblongatis vel subellipsoideis, 2-guttulatis, hyalinis, 6-7 ≃ 2-3; basidiis brevissimis.

Hab. ad ramos emortuos Ilicis Aquifolii, St.-Aubin prope Bernay (Eure) in Gallia (EUG. NIEL).

7. **Myxosporium Aquifolii** Fautr. Rev. Myc. 1891, p. 132. — Acervulis erumpentibus, epidermide rupta cinctis; conidiis ovoideis, oblongis, 12-15 ≃ 4-5. 6830

Hab. in ramis siccis Ilicis Aquifolii, Noidan, Côte-d'Or Galliæ (F. Fautrey).

8. **Myxosporium Mollerianum** Bres. Fung. Lusit. p. 7. — Acervulis dense gregariis, $^1/_4$-1 mm. lat., discoideis v. obovatis, variantibus, applanatis, e roseo fusco-purpurascentibus; conidiis cylindraceis, ad latera paullulum depressis, inferne attenuato-subpapillatis, 2-guttatis, 14–18 ≃ 5-6; basidiis fasciculatis, clavatis, rectis, raro subcurvatis, 10–12 ≃ 3,5-4. 6831

Hab. in ramulis Cocculi laurifolii in horto botanico, Coimbra Lusitaniæ (Moller).

9. **Myxosporium pubescens** (Riess) Sacc., *Achroomyces pubescens* Riess in Bot. Zeit. 1853, p. 136, t. III, f. 21–23. — Subrotundum, pulvinatum, pallidum; fibris (basidiis?) continuis, in fungo exsoleto pubescenti-prominulis; conidiis obtusis, rectis vel parum curvatis, nucleolis plerumque farctis. 6832

Hab. in ramulis emortuis Tiliæ in Germania. — «Verisimiliter a genere *Myxosporio* removendum et genus *Achroomyces* servandum».

10. **Myxosporium tumidum** (Bon.) Sacc. Syll. III, p. 727. — Sec. Oudem. Contr. Myc. Pays-bas XIII, p. 56, species nascitur quoque in ramis Alni glutinosæ, Bois de la Haye Nederlandiæ et præbet conidia cylindracea, utrinque rotundata, curvula, 2-3-guttulata, 16-20 ≃ 3-3,5.

11. **Myxosporium melanotrichum** (Cast.) Sacc., *Næmaspora* Cast. Cat. Pl. Mars. II, p. 57. — Acervulis minutis, remotis, distantibus, rotundatis, convexis, nigro-micantibus; conidiis ovatis, utrinque subacutis, hyalinis, continuis, 5-6 ≃ $1^1/_4$-$1^1/_2$, in cirros nigros, tenuissimos, 1-1,5 mm. long. 50 μ. cr., tortuosos, ramosos exeuntibus. 6833

Hab. in cortice sicco Salicis albæ pr. Marseille Galliæ.

12. **Myxosporium rimosum** Fautr., Rev. Myc. 1891, p. 132. — Acervulis subcutaneis, per rimas numerosas, plerumque longitudinales erumpentibus; conidiis oblongis, attenuatis, obtusis, 10-14 ≃ 5-5,5. 6834

Hab. in ramulis Populi tremulæ, Côte-d'Or Galliæ (F. Fautrey).

13. **Myxosporium pallidum** Fautr. Rev. Myc. 1891, p. 132. — Acervulis subcutaneis, magnis, in cirrum crassum, sordide album erumpentibus; conidiis ovoideis, oblongis, 12-15 ≃ 4,5. 6835

Hab. in ramulis Quercus Noidan, Côte-d'Or Galliæ (F. Fautrey).

14. **Myxosporium sanguineum** Fuck. Symb. p. 230. — Acervulis pustulatis, 2 mm. latis, 1 mm. crassis, hemisphæricis, sub epidermide demum fissa nidulantibus, sanguineis; conidiis in basidiorum ramosorum apicibus, oblongis, vix curvatis, utrinque obtusis, 20 ≃ 3, simplicibus, hyalinis. 6836

Hab. in ramis emortuis Ulmi campestris prope Hattenheim in Rhenogovia. — «An huc ducendum *M. Ulmi* Oud.?».

15. **Myxosporium phomoides** Karst. et Har. Journ. Bot. 1890, p. 361. — Acervulis sparsis, solitariis, raro connatis, cortice innatis, pustulas superficiales, minutas, demum ruptas formantibus, rotundatis, perithecioideis, primitus pallidis, dein fuligineo-atro-limitatis, circ. 0,3 mm. lat.; conidiis ellipsoideis, interdum medio contractis v. irregularibus, intus granulosis, membrana crassiusculis, hyalinis v. subflavescenti-hyalinis, 20–30 ≃ 10–14; basidiis bacillaribus, 5-15 μ. long. 6837

Hab. in corticibus, Chili (Cl. Gay).

16. **Myxosporium Viciæ** Fautrey in Rev. Myc. 1890, p. 168. — Acervulis subcutaneis, læte roseis; conidiis concoloribus, irregularibus, sæpius 16 ≃ 12; basidiis non visis. 6838

Hab. in caulibus siccis Viciæ Craccæ, Noidan, Côte-d'Or Galliæ (F. Fautrey).

HYPODERMIUM Link. — Syll. III, p. 728.

1. **Hypodermium Orchidearum** Cooke et Mass. Grev. XVI, p. 48. — Acervulis erumpentibus, linearibus vel anguste oblongis, epidermide fissa cinctis; conidiis cylindraceis, utrinque rotundatis, concatenatis, continuis, intus granulosis, hyalinis, 25-27 ≃ 5; basidiis crassis, brevibus. 6839

Hab. in foliis Cymbidii eburnei culti, Kew London Brit.

BLENNORIA Fr. — Syll. III, p. 730.

1. **Blennoria patagonica** Speg. F. Pat. n. 177. — Acervulis sæpius hypophyllis, laxe gregariis v. sparsis, erumpentibus epidermideque laciniata cinctis, compactiusculis, udis irregulariter patellari-apertis, disco tumido fuscescente, siccis ruguloso-contractis, sordide argillaceo-fuscis, 250-400 μ. diam., basidiis non visis; conidiis e strato proligero, carnosulo, fulvo-fusco, dense minutissimeque celluloso, 6840

catenulatim exsurgentibus, simplicibus, bacillaribus, 15-20 ≃ 1-1,5, utrinque truncatis, hyalinis.

Hab. vulgatissima ad folia dejecta putrescentia Berberidis heterophyllæ prope Rio S. Cruz et Callego nec non Gregory bay, Punta Arenas, Fuegiæ.

TRULLULA Ces. — Syll. III, p. 731.

1. **Trullula Junci** Cooke et Hark. in Grevillea. — Acervulis orbicularibus, convexis atris, minutis, erumpentibus; conidiis cylindraceis v. subfusiformibus, nucleatis, continuis hyalinis, e basidiis brevissimis radiantibus, 20-25 ≃ 4. 6841

Hab. in culmis Junci in California (Harkness).

2. **Trullula dothideoides** Sacc. et Berl. Misc. Myc. II, p. 134, t. IX, f. 33. — Acervulis perithecioideis, subsparsis, convexis, erumpentibus, atris, compactis, $^3/_4$ mm. diam.; basidiis dense fasciculatis, furcato-ramosis, prælongis, hyalinis in conidia cylindrica utrinque truncata, hyalina, 10-12 ≃ 4 dilabentibus. 6842

Hab. in cortice Ulmi campestris dejecto prope Teolo Euganeorum Ital. bor.

3. **Trullula phyllostictoides** Speg. F. Puigg. n. 448. — Maculis amphigenis, orbicularibus determinatis, superne cinerescenti-albidis, inferne subfulvescentibus, acervulis hemisphæricis, 180-200 μ. diam. primo tectis, dein erumpentibus, sparsis, olivaceis; conidiis cylindraceis, 4-5 × 2, utrinque truncatis, catenulatis, subolivaceis; basidiis simplicibus, 15-20 × 1, dense fasciculatis. 6843

Hab. ad folia viva Myrtaceæ cujusdam in dumetis pr. Apiahy Brasiliæ.

4. **Trullula Tehuelches** Speg. F. Pat. n. 178. — Peritheciis sparsis v. gregariis, innato-erumpentibus, hemisphærico-subcupulatis, 90-100 μ. diam., atris, glabris, rugulosis, contextu epithecii subcarbonaceo, externe atro interne subviolascente, subindistincte parenchymatico; basidiis fasciculatis, articulato-nodulosis, parce ramulosis, hyalinis, longitudine variis; conidiis acro-pleurogenis, catenulatis, cylindraceis, utrinque truncatis, ac 1-guttulatis, 3-6 × 1, hyalinis. 6844

Hab. ad ramulos emortuos Lepidophylli cupressiformis in meseta secus Rio Gallego Patagoniæ. — Species pseudoperitheciorum præsentia, melius forte inter subcupulatas (sub *Godrionella?*) adscribenda.

Hab. in ramulis Quercus Noidan, Côte-d'Or Galliæ (F. Fautrey).

14. **Myxosporium sanguineum** Fuck. Symb. p. 230. — Acervulis pustulatis, 2 mm. latis, 1 mm. crassis, hemisphæricis, sub epidermide demum fissa nidulantibus, sanguineis; conidiis in basidiorum ramosorum apicibus, oblongis, vix curvatis, utrinque obtusis, 20 ≃ 3, simplicibus, hyalinis. 6836

Hab. in ramis emortuis Ulmi campestris prope Hattenheim in Rhenogovia. — «An huc ducendum *M. Ulmi* Oud.?».

15. **Myxosporium phomoides** Karst. et Har. Journ. Bot. 1890, p. 361. — Acervulis sparsis, solitariis, raro connatis, cortice innatis, pustulas superficiales, minutas, demum ruptas formantibus, rotundatis, perithecioideis, primitus pallidis, dein fuligineo-atro-limitatis, circ. 0,3 mm. lat.; conidiis ellipsoideis, interdum medio contractis v. irregularibus, intus granulosis, membrana crassiusculis, hyalinis v. subflavescenti-hyalinis, 20-30 ≃ 10-14; basidiis bacillaribus, 5-15 μ. long. 6837

Hab. in corticibus, Chili (Cl. Gay).

16. **Myxosporium Viciæ** Fautrey in Rev. Myc. 1890, p. 168. — Acervulis subcutaneis, læte roseis; conidiis concoloribus, irregularibus, sæpius 16 ≃ 12; basidiis non visis. 6838

Hab. in caulibus siccis Viciæ Craccæ, Noidan, Côte-d'Or Galliæ (F. Fautrey).

HYPODERMIUM Link. — Syll. III, p. 728.

1. **Hypodermium Orchidearum** Cooke et Mass. Grev. XVI, p. 48. — Acervulis erumpentibus, linearibus vel anguste oblongis, epidermide fissa cinctis; conidiis cylindraceis, utrinque rotundatis, concatenatis, continuis, intus granulosis, hyalinis, 25-27 ≃ 5; basidiis crassis, brevibus. 6839

Hab. in foliis Cymbidii eburnei culti, Kew London Brit.

BLENNORIA Fr. — Syll. III, p. 730.

1. **Blennoria patagonica** Speg. F. Pat. n. 177. — Acervulis sæpius hypophyllis, laxe gregariis v. sparsis, erumpentibus epidermideque laciniata cinctis, compactiusculis, udis irregulariter patellari-apertis, disco tumido fuscescente, siccis ruguloso-contractis, sordide argillaceo-fuscis, 250-400 μ. diam., basidiis non visis; conidiis e strato proligero, carnosulo, fulvo-fusco, dense minutissimeque celluloso, 6840

catenulatim exsurgentibus, simplicibus, bacillaribus, 15-20 ≃ 1-1,5, utrinque truncatis, hyalinis.

Hab. vulgatissima ad folia dejecta putrescentia Berberidis heterophyllæ prope Rio S. Cruz et Callego nec non Gregory bay, Punta Arenas, Fuegiæ.

TRULLULA Ces. — Syll. III, p. 731.

1. **Trullula Junci** Cooke et Hark. in Grevillea. — Acervulis orbicularibus, convexis atris, minutis, erumpentibus; conidiis cylindraceis v. subfusiformibus, nucleatis, continuis hyalinis, e basidiis brevissimis radiantibus, 20-25 ≃ 4. 6841

Hab. in culmis Junci in California (Harkness).

2. **Trullula dothideoides** Sacc. et Berl. Misc. Myc. II, p. 134, t. IX, f. 33. — Acervulis perithecioideis, subsparsis, convexis, erumpentibus, atris, compactis, $^3/_4$ mm. diam.; basidiis dense fasciculatis, furcato-ramosis, prælongis, hyalinis in conidia cylindrica utrinque truncata, hyalina, 10-12 ≃ 4 dilabentibus. 6842

Hab. in cortice Ulmi campestris dejecto prope Teolo Euganeorum Ital. bor.

3. **Trullula phyllostictoides** Speg. F. Puigg. n. 448. — Maculis amphigenis, orbicularibus determinatis, superne cinerescenti-albidis, inferne subfulvescentibus, acervulis hemisphæricis, 180-200 μ. diam. primo tectis, dein erumpentibus, sparsis, olivaceis; conidiis cylindraceis, 4-5 ≃ 2, utrinque truncatis, catenulatis, subolivaceis; basidiis simplicibus, 15-20 ≃ 1, dense fasciculatis. 6843

Hab. ad folia viva Myrtaceæ cujusdam in dumetis pr. Apiahy Brasiliæ.

4. **Trullula Tehuelches** Speg. F. Pat. n. 178. — Peritheciis sparsis v. gregariis, innato-erumpentibus, hemisphærico-subcupulatis, 90-100 μ. diam., atris, glabris, rugulosis, contextu epithecii subcarbonaceo, externe atro interne subviolascente, subindistincte parenchymatico; basidiis fasciculatis, articulato-nodulosis, parce ramulosis, hyalinis, longitudine variis; conidiis acro-pleurogenis, catenulatis, cylindraceis, utrinque truncatis, ac 1-guttulatis, 3-6 ≃ 1, hyalinis. 6844

Hab. ad ramulos emortuos Lepidophylli cupressiformis in meseta secus Rio Gallego Patagoniæ. — Species pseudoperitheciorum præsentia, melius forte inter subcupulatas (sub *Godrionella?*) adscribenda.

COLLETOTRICHUM Corda. — Syll. III, p. 735.

1. **Colletotrichum Brassicæ** Schulz. et Sacc. in Rev. Myc. 1884, Schulz. Ill. fung. Slav. n. 187. — Gregarium vel cæspitulosum, minutum, atrum; acervulis pulvinatis, subsuperficialibus, setulis filiformibus, rigidulis, subcontinuis, fuligineis cinctis; conidiis fusoideis, curvulis, 19-24 μ. longis, hyalinis; basidiis bacillaribus, fasciculatis, conidium æquantibus. 6845

   Hab. in caule putrescente Brassicæ oleraceæ v. caulocarpæ, prope Vinkovce Slavoniæ.

2. **Colletotrichum Pisi** Pat. Bull. Soc. Myc. 1891, pag. 180, tab. XI, f. IV. — Maculis ovatis v. rotundis, 5-8 mm. lat., epicarpicis, sordide albidis, linea brunnea cinctis; acervulis 100-150 μ. diam., erumpentibus, laxe gregariis; setulis numerosis, brunneis, erectis, acervuli margine insitis, apice cuspidatis, basi inflatis, 60-90 × 6 v. sæpius 30-40 × 6; conidiis hyalinis, fusoideis, utrinque acutatis, rectis curvulisve, 2-guttulatis, 11-13 × 3-4. 6846

   Hab. in leguminibus Pisi sativi, Quito Amer. centr. — Sec. cl. Pat. l. c., *Septoria Leguminum* Desm. Exs. ed. I, n. 1336, eadem est ac *Collet. Lindemuthianum* (Sacc. et Magn.) Br. et C. quod inde *C. Leguminum* (Desm.) Pat. nuncupandum est; sed *Sept. Leguminum* in Syll. III, p. 559, ex Passer., Sept. p. 26, certe diversa est et nomen idem suum (*S. Leguminum* Pass. [nec Desm.]) servare potest.

3. **Colletotrichum carpophilum** Kell. et Swingle Journ. of Myc. 1888, p. 44. — Maculis orbicularibus, depressis, sæpe confluentibus et legumina late ambientibus, 0,5-1 cm. diam., brunneis, centro pallidis, vulgo rubenti-marginatis; acervulis numerosis, confertis, atris, applanatis, magnitudine varia, setulis sat copiosis, atris, curvulis, apice tenuatis, 60-100 × 5-6; conidiis fusoideo-curvulis, utrinque acutis, 16-22 × 2,5-4, plerumque 18-21 × 3-3,5, nucleatis. 6847

   Hab. in leguminibus vivis Astragali caryocarpi, Manhattan Kans. Amer. bor.

4. **Colletotrichum Malvarum** (A. Br. et Casp.?) Southw. Journ. Myc. 1890, p. 116, *Colletotrichum Althææ* Southw. Journ. Myc. 1890, p. 45, t. III. — Maculis epiphyllis v. caulicolis, flavido-brunneis; setulis atro-brunneis, copiosis, 1-2-septatis, sæpius hyalinis, 60-109 × 3-5; conidiis oblongis, granulosis, hyalinis, coacervatis carneis, 11-28 × 5; basidiis hyalinis, cylindraceis, conidio sublongioribus, 6848

Hab. in caulibus et foliis Althææ et Sidæ, New York, New Jersey et Manhattan Amer. bor. — Verisimiliter idem est ac *Steirochæte Malvarum* A. Br. et Casp., quæ tamen nonnullis notis (si exacte descripta) recederet.

5. **Colletotrichum Gossypii** Southw. in Journ. Myc. 1890, pag. 101, t. IV et 1891, p. 175, t. 17-18. — Acervulis epidermidis fragmentis demum cinctis; setis discretis vel cæspitosis, basi atro-brunneis, apice subhyalinis, septatis, raro ramosis; conidiis irregulariter oblongis, plerumque 1-guttatis, hyalinis, coacervatis carneis 11-20 ≃ 4,5-5,5; basidiis hyalinis, crassiusculis conidio longioribus, 12-28 ≃ 5, rarissime ramosis. 6849

Hab. in omnibus partibus Gossypii, cui valde noxium, in Amer. bor. pluribus locis. — Setæ quoque non raro apice conidia gerunt.

6. **Colletotrichum oligochætum** Cav. Mat. Lomb. p. 21, t. II, f. 4. — Maculis epiphyllis, subcircularibus, luteo-ochraceis, eximie concentrice zonatis; acervulis minutis, sparsis, sessilibus, albo-carneis; setulis 1-3 rigidis, olivaceis, 1-2-septatis, basi inflatulis, apice obtusulis 60-70 ≃ 5-7; basidiis fasciculatis brevibus 10-12 μ. long.; conidiis continuis, cylindraceis v. ovatis, sæpius medio constrictis, utrinque vel uno apice obtusatis, hyalinis, 13-15 ≃ 4-5. 6850

Hab. in foliis primordiis caulibusque Lagenariæ vulgaris in horto botanico Pavia Italiæ.

7. **Colletotrichum sphæriæforme** Passer. Diagn. F. N. IV, n. 129. — Pseudoperitheciis gregariis vel crebre sparsis, convexo-pulvinatis, discoideis vel ovalibus, atris, nitidis, epidermide vix centro fissa tectis, basi cellulis fuligineis parenchymaticis chloro-jodureti zinci ope brunneo-cærulescentibus contextis et setis crassis erectis, 50-90 ≃ 7-15 vel usque ad 112 μ. longis, subclavatis, rectis vel curvulis aut toruloso-gibbosis, continuis, simplicibus vel furcatis, atris, apice pellucidis, obvallatis; conidiis elongato-subclavatis vel subfusiformibus, ut plurimum continuis, quandoque spurie bi-triseptatis, hyalinis, circiter 10 μ. long.; basidiis subæquilongis tenuibus strictis, dense fasciculatis fuscidulo-rufescentibus. 6851

Hab. in ramis emortuis Menispermi canadensis in horto botanico Parma. — Ob conidia interdum spurie septata a genere aliquantum desciscit.

8. **Colletotrichum Spinaciæ** Ell. et Halst. Journ. Myc. 1890, p. 34 et in Bull. New Jers. n. 70. p. 6 c. ic. — Maculis rotundis, sordide albidis v. viridulis, 2-4 mm. diam., margine subelevatis; acervu- 6852

lis amphigenis, punctiformibus, 40-75 μ. diam., setulis paucis, 3-12, patentibus, 60-75 μ. long. basi subbulbosa 4-4,5 μ. cr., supra fere hyalinis et subacutis, subtus atro-brunneis, continuis (v. vix septatis?); conidiis subfalcato-fusoideis, hyalinis, 2-4-guttatis, 14-20 ≃ 2,5-3, utrinque subacutis; basidiis brevibus.

Hab. in foliis vivis Spinaciæ, Newark, N. J. Amer. bor.

9. **Colletotrichum peregrinum** Passer. Diagn. F. N. IV, pag. 14. — 6853
Maculis plus minus amplis, exaridis, fuscis; acervulis epiphyllis, sparsis vel subgregariis, tectis, dein erumpentibus, subglobosis, atris, basi setis rigidis, fuligineis, integris vel septatis, in apicem pellucidum acuminatis, circiter 75 ≃ 2,5-3, cinctis; conidiis elongatis rectis, utrinque rotundatis, hyalinis, 2-3-guttulatis, integris, subinde (spurie?) medio septatis visis, 12-16 ≃ 2,5-3, hyalinis; basidiis dense fasciculatis, filiformibus, fumido-pellucidis, 50 μ. circiter longis.

Hab. in foliis vivis Araliæ Sieboldii, Parma Ital. bor. — Adest quoque *Phyllosticta* peritheciis eximie membranaceis, pertusis, sporulis eguttulatis, hyalinis, 5-6 ≃ 2,5. An *Ph. disciformis* Penzig?

10. **Colletotrichum gloeosporioides** Penzig, Syll. III, p. 735 — var. 6854
Hederæ Passer. Diagn. F. N. IV, p. 15. — Differt a typo setulis tortuosis semper integris inferne fuligineis, apice pellucidis, obtusis et subinde clavulatis; conidiis fusiformibus rectis vel curvulis, 18-20 ≃ 5-6, hyalinis, pluriguttulatis.

Hab. in maculis arescentibus foliorum vivorum Hederæ Helicis in viridario publico Parma et Bologna.

11. **Colletotrichum ampelinum** Cav. Mat. Lomb. p. 21, t. II, f. 5. — 6855
Acervulis epiphyllis, minutis, in maculis irregularibus sparsis, epidermide cito erumpentibus, setulis 3-20 rigidiusculis, rectis v. curvulis, continuis, atro-olivaceis, apice dilutioribus, 50-150 μ. long.; conidiis cylindraceis, utrinque obtusis, 2-guttatis, hyalinis, 13-14 ≃ 4-5.

Hab. in foliis Vitis Labruscæ in horto botanico Pavia Italiæ.

PESTALOZZIELLA Sacc. et Ell. Syll. III, p. 737.

1. **Pestalozziella Geranii-pusilli** C. Mass. Contr. Mic. Ver. p. 103, 6856
t. III, f. 22. — Acervulis punctiformibus, hypodermeis, in maculis amphigenis, parvis, suborbiculatis, expallentibus, margine subincrassato ferrugineo-limbatis insidentibus; conidiis (haud stipitatis?)

oblongis, utrinque obtusis, 14–19 ≃ 6–8, plasmate subchlorino farctis, sub apice ex uno latere setula e basi in ramis 3-5-subdichotomo-divisa ornatis, ramis setulæ longitudinem conidii sæpe adæquantibus.

Hab. in foliis Geranii pusilli, Tregnago Agri veron. — Afnis *P. subsessili.*

2. **Pestalozziella Andersoni** Ell. et Everh. Bot. Gaz. 1891, p. 48, t. VII, f. 12–14, Journ. Myc. 1889, p. 65. — Acervulis amphigenis, dense sparsis, nigris, erumpentibus, discoideis, 150-200 μ. diam.; conidiis ovato-ellipsoideis, subacutis, hyalinis, continuis, 15-22 ≃ 7-10, crista irregulari, 3-4-partita, e setulis patentibus, 12-15 μ. long. formata, donatis; basidiis nullis v. obsoletis. 6857

Hab. in foliis vivis Asclepiadis v. Apocyni, Sand Coulee, Mont. Amer. bor. (F. W. Anderson).

3. **Pestalozziella circularis** Cooke et Mass. Grev. XVIII, p. 80. — Pseudo-peritheciis amphigenis, circulariter dispositis, convexulis, denique irregulariter erumpentibus, brunneis, dein nigricanti-nitidulis, *Phyllachoræ* instar; conidiis elliptico-cylindraceis, 30-34 ≃ 8-10, hyalinis, continuis, intus granulosis, apice unisetis, basi breviter crasseque stipitatis setisque 3–4 divergentibus hyalinis ornatis. 6858

Hab. in foliis emortuis Eucalypti parvifloræ in Australia (Mrs. Martin.)

4. **Pestalozziella Yuccæ** Karst. et Har. Journ. Bot. 1890, p. 362. — Acervulis gregariis, vulgo orbicularibus, epidermide dein circumscisso-soluta velatis, atris, disco pallescente, 0,2 mm. v. paullo ultra lat.; conidiis clavato-oblongatis, nonnunquam medio constrictis, continuis, hyalinis, 44–50 ≃ 12–15, apice appendiculis 4, tenellis, 20 μ. circ. long. instructis. 6859

Hab. ad Yuccam, Texas Amer. bor. (Trécul).

Sect. 2. Phæosporæ.

MELANCONIUM Link — Sacc. Syll. III, p. 749.

1. **Melanconium triangulare** E. et E. in Journ. of Myc. 1886, p. 38. — Acervulis epidermide tectis, orbicularibus, parvis, stromate corticali, centro in pustulam conicam elevato; conidiis obtuse triangularibus, minutis, 5–6 μ. diam., brunneis, in massam atram coalitis; basidiis gracilibus, 15 ≃ 1. 6860

Hab. in ramulis emortuis Carpini americanæ, West Chester, Pennsylvania Amer. bor.

2. **Melanconium zonatum** Ell. et Ev. in Peck 44 Rep. p. 24. — *M. bicolori* affine sed stromate albo carens et conidiis zona pellucida medio notatis. 6861

Hab. in ramis Ostryæ virginicæ, Clarkville Amer.

3. **Melanconium dimorphum** Peck 40 Rep. p. 62. — Acervulis pusillis, subcutaneis, subprominulis, fere conicis, nigris, stromate albo præditis; conidiis dimorphis, aliis angustis, cylindraceis, rectis vel curvis, 7,5-10 ≃ 2, aliis oblongis, ellipsoideis v. subfusoideis, coloratis, 10-12,5 ≃ 5-6,5, in massas nigras erumpentibus. 6862

Hab. in ramis emortuis Alni viridis, in montibus Adirondack Amer. bor.

4. **Melanconium betulinum** S. et K. — Syll. III, p. 756 — *Didymosporium elevatum* Lib. Crypt. IV, n. 391 (1837) ex parte, an et Linkii? — Occurrit quoque in ramis exsiccatis Betulæ albæ in Arduennis. Conidia ovoidea, 10-12 ≃ 8-9, fuliginea.

5. **Melanconium salicinum** Ell. et Ev. in Journ. of Myc. 1886, p. 103. — Acervulis sparsis, tuberculiformibus v. sæpe sursum truncatis, circiter 1 mm. diam. crassis, epidermide rupta cinctis; conidiis ovato-ellipsoideis, brunneis, 10-12 ≃ 6-7. 6863

Hab. in ramulis emortuis Salicis nigræ in America boreali (Langlois). — Differt a *M. bicolori* matrice atque stromate albo nullo.

6. **Melanconium gracile** Ell. et Ev. in Journ. of Myc. 1885, pag. 44. — Pustulis prominentibus, seriatim dispositis, in rimis longitudinalibus corticis, stromate minuto albescente; conidiis oblongo-cylindraceis, pallide brunneis, 15-18 ≃ 4-5. 6864

Hab. in ramulis emortuis Caryæ albæ, Plainfield Amer. bor. (Geo. F. Mescutt).

7. **Melanconium Gleditschiæ** Bacc. Cat. Fung. Avell. p. 374. — Acervulis sparsis, rotundis, subcutaneis, epidermide atrata, poro aperta tectis; conidiis ovoideis, olivaceo-fuscis, 12 ≃ 7, circa porum sæpe papillam atram, prominulam rarius cirrosam formantibus. 6865

Hab. in ramis siccis Gleditschiæ et Carpini (?) pr. Avellino Ital. austr.

8. **Melanconium fuligineum** (Scrib. et Viala) Cav. Bitt. Rot. 1888, p. 4, Berl. Dūe Parass. Vite p. 444, *Greeneria fuliginea* Scribner et Viala Compt. Rend. Sept. 1887. — Acervulis sparsis vel subinde gregariis, primo griseo-cinereis, dein fuligineis, epidermide tectis, dein rimose erumpentibus; conidiis ovoideis v. ellipsoideis, plerumque navicularibus v. inæquilateralibus, utrinque acutiusculis, 9-12 ≃ 6866

4-6, haud raro 14 μ. long., olivascentibus, guttulatis; basidiis filiformibus e stromate conoideo parenchymatico albido oriundis, longiusculis.

Hab. in baccis maturescentibus Vitis viniferæ in Amer. bor. (Scribner) ubi morbum *bitter rot* causat, nec non prope Vittorio Ital. bor. (Berlese).

9. **Melanconium phyllostictoides** Speg. F. Puigg. n. 449. — Maculis irregulariter orbicularibus, 5-20 mm. diam., sæpe confluentibus ac totum fere folium occupantibus, determinatis, sordide fulvo-fuscescentibus, zona strictissima rufescenti-fusca cinctis; acervulis amphigenis, dense sparsis e lenticulari conoideis, 200 μ. diam., primo tectis, mox erumpentibus atris; conidiis e fronte discoideis, 6-8 μ. diam., e latere compressis, 1-guttulatis, fuligineis. 6867

Hab. ad folia viva Xanthoxyli speciei cujusdam in dumetis pr. Apiahy Brasiliæ. — Species pulchella conidiis *Lasmeniarum* sporulas perfecte imitantibus.

10. **Melanconium pallescens** Bäuml. Crypt. Presb. p. 27. — Acervulis minutis, 150-200 μ. lat., nigris, sub epidermide dealbata nidulantibus; conidiis ovatis, fuligineis, sæpe inæquilateralibus, 14-18 ≃ 7-9; basidiis hyalinis, 8 ≃ 3. 6868

Hab. in ramulis emortuis Corni sanguineæ, Pressburg Hungariæ.

11. **Melanconium Tiliæ** Peck 42 Rep. Rep. p. 31. — Acervulis subcutaneis, minutis, epidermidem vix elevantibus; conidiis ovoideis v. oblongis v. subellipsoideis, nigris, 22,5-27,5 ≃ 17,5-20, in massulas nigras erumpentibus. 6869

Hab. in ramis emortuis Tiliæ americanæ, Mechanicville Amer. bor.

12. **Melanconium foliicolum** Peck 42 Rep. p. 31. — Maculis orbicularibus, brunneis vel rubro-brunneis, margine angusto, obscuriore cinctis; acervulis hypophyllis, minutis, nigris; conidiis ellipsoideis, subcoloratis, 10-12,5 ≃ 7,5. 6870

Hab. in foliis vivis Sassafras Manor Amer. bor.

13. **Melanconium Rusci** C. et Mass. Grev. XVII, p. 3. — Acervulis sparsis, orbicularibus, erumpentibus, cuticula brunnea lacerata tectis; conidiis ellipsoideis, subolivaceis, 12 ≃ 7-8. 6871

Hab. in phyllodiis Rusci aculeati, Kew London Britanniæ. — A *Sphæropside Rusci* defectu perithecii etc. mox distinctum.

14. **Melanconium æcidiiforme** Pat. Bull. Soc. Myc. 1888, p. 123. — Acervulis nigris, zona alba cinctis, primo subepidermicis, dein promi- 6872

nentibus, cylindraceis, 0,5-1 mm. alt., apice truncatis, stromate albo basi præditis; conidiis ovoideis v. subglobosis, nigris, opacis, 1-2-guttatis, 15-20 × 13-15, seriatim dispositis.

Hab. in petiolis Mauritiæ flexuosæ, Puerto-Zamuro Venezuelæ.

15. **Melanconium? bambusinum** Speg. F. Guar. nonn. n. 152. — Erumpens, 6873
lineare, dense gregarium; acervulis 1-5 mm. long. 0,3-0,4 mm lat., rimose dehiscentibus, intus atris; conidiis subglobosis, sublimoniformibus, majusculis, obscure fuligineis, 30 × 20-30; basidiis (hyphis?) longis repentibus, articulatis, fumoso-olivaceis, superne sæpius uncinato-recurvis basidiisque utroque apice monosporis.

Hab. in culmis dejectis putrescentibus Bambusaceæ cujusdam pr. Paraguarì Brasiliæ. — Ad *Coniosporium* nutat.

16. **Melanconium stictoides** Sacc. et Paol. Myc. Mat. pag. 27, t. III, 6874
f. 7. — Acervulis epiphyllis, subsparsis, minutis, epidermide operculatim secedente, grisea, $^1/_2$ mm. diam.; conidiis e globoso ovatis, 9-10 × 8, uniguttatis, atro-fuligineis, basi sæpius apiculatis.

Hab. in foliis languidis v. emortuis Monocotyledoneæ verisimiliter Bambusæ vel Dracænæ, Malacca (Scortechini).

BASIASCUM Cavara App. Pat. Veg. p. 11 (Etym. a *basis* basidium et *ascos* uter). — Acervuli subcutanei, mox erumpentes, crustacei. Basidia e stromate parenchymatico orta, brevissima, basi valde inflata fusca. Conidia cito decidua continua, fusca. — «An *Fusicladii* forma v. status?».

1. **Basiascum Eriobotryæ** Cav. loc. cit. f. 19-20. — Acervulis atris, 6875
epiphyllis; basidiis inflatis, obscure 1-2-septatis, 12-18 μ. longis, olivaceis pellucidis; conidiis ovato-lanceolatis, basi truncatis, medio constrictis, apice acuminatis, 16-20 × 6-7.

Hab. in foliis Eriobotryæ japonicæ cultæ Caserta Ital. infer.

THYRSIDIUM Mont. — Syll. III, p. 761.

1. **Thyrsidium botryosporum** Mont. — Syll. III, p. 762. — Huc ducenda *Moronopsis inquinans* Delacr. (nov. gen. et sp.) in Bull. Soc. Myc. 1891, p. 109 et Contr. Myc. p. 14, t. III, f. 4. — Nascitur quoque in cortice Fagi, Carpini, Juglandis et in caulibus Hyperici, Saône-et-Loire Galliæ (G. Delacroix).

Sect. 3. Didymosporæ.

DIDYMOSPORIUM Nees. — Syll. III, p. 763.

1. **Didymosporium profusum** (Grev.) Fr. Sacc. Syll. III, p. 763, *Didymosporium elevatum* Lib. Crypt. n. 391 (1837) ex parte. Nascitur quoque in ramis Alni glutinosæ in Arduennis et Alni viridis pr. Trento. Conidia constricta, didyma, utrinque rotundata, 9-12 × 8-9, fuliginea, septo tenui vel spurio divisa, sed crasse biguttata.

2. **Didymosporium effusum** Schw. — Syll. III, pag. 764. — Var. **distinctum** Peck 43 Rep. p. 27. — Acervulis rotundis, erumpentibus, distinctis; conidiis oblongis, oblongo-ovatis v. ellipsoideis, 1-septatis, raro 2-septatis, coloratis, 35-45 × 15-20. 6876

   Hab. in cortice emortuo Ulmi fulvæ, Copake Iron Works Amer. bor.

3. **Didymosporium sepultum** Passer. Diagn. F. N. IV, p. 14. — Acervulis subcutaneis, pulvinatis, seriatim digestis v. sparsis, epidermidem leniter sublevantibus, sed non vel vix findentibus; conidiis lanceolato-fusiformibus, medio septatis, non constrictis, olivaceis, 8-12 × 2,5-3; basidiis filiformibus, hyalinis, conidio longioribus. 6877

   Hab. in ramis Mühlenbeckiæ complexæ, Roma. — *Didymosp. Hedysari* Schw. Carol. pag. 75, *Coryneum Hedysari* Schw. Amer. bor. p. 306, sec. exempl. Ravenelii in Desmodio stricto sistit *Uromycetem Hedysari-paniculati* et in alia Desmodii specie *Parodiellam perisporioidem!*

BARKLAYELLA Sacc. n. gen. (Etym. a cl. Doct. med. Arth. Barclay, anno 1891 Simlæ præmature demortuo, de studio *Uredinearum* indicarum meritissimo). — Acervuli subcutaneo-erumpentes, atri. Conidia oblonga, 1-septata, colorata, apice setis 1-3 coronata. — Genus cum *Robillarda* comparandum, sed perithecium nullum.

1. **Barklayella primaria** (Ell. et Ev.) Sacc. *Pestalozzia* E. et E. in Journ. of Myc. 1886, p. 103. — Acervulis hysteriiformibus, atris, erumpenti-superficialibus circiter $^1/_2$ mm. longis, sparsis; conidiis oblongo-cylindraceis, luteo-brunneis, demum uniseptatis, setis tribus, hyalinis, radiantibus, 6-9 μ. longis, sursum attenuatis; basidiis filiformibus, 10-12 μ. longis. 6878

   Hab. in Scirpo fluviatili emortuo in Louisiana Amer. bor. (Langlois). — Conidia primo continua sunt.

2. **Barklayella flagellifera** (E. et Ev.) Sacc. *Pestalozzia* Ell. et Ev. 6879
Journ. Myc. 1889, p, 156. — Acervulis numerosis, subcuticularibus, dein erumpentibus, nucleo atro-griseo; conidiis copiosis, oblongis, subcurvis, 1-septatis, flavido-hyalinis, 9–12 = 3, setula undulata, 25–35 μ. long., hyalina prope apicem inserta, præditis; basidiis validis, conidio subæquilongis.

Hab. in ramis Comptoniæ asplenii folliæ, Newfield N. J. Amer. bor.

SEPTOMYXA Sacc. Syll. III, p. 766.

1. **Septomyxa leguminum** Karst. Hedw. 1889, p. 112. — Acervulis 6880
gregatim sparsis, depresso-sphæroideis, subcutaneis, pallidis, demum subfuscescentibus, exiguis; conidiis oblongatis, obtusis, rectis, rarius curvulis, constricto 1-septatis, 12-18 = 4-5.

Hab. in leguminibus Pisi sativi var. hortensis languidis in horto mustaliensi Fenniæ.

2. **Septomyxa Carpini** Peck 44 Rep. pag. 24, tab. IV, f, 13-14. — 6881
Acervulis subcutaneis, subprominulis, erumpentibus, intus albidis; conidiis hyalinis, anguste fusoideis, 2-guttatis, demum 1-septatis, in massam subrufescentem erumpentibus.

Hab. in cortice Carpini americanæ, Meadowdale, Albany Amer. bor.

MARSONIA Fisch. — Syll. III, p. 767.

I. *In Dicotyledoneis lignosis.*

1. **Marsonia Juglandis** (Lib.) Sacc. Syll. III, pag. 768 — var. **Rhois** 6882
Sacc. in Rev. Myc. 1885. — Conidiis 18–21 = 3–4, curvato-subrostratis; acervulis conidiorum membranula anhista sed reticulata, brunneola (non cellulosa) velatis.

Hab. in foliis Rhois typhinæ in Gallia (Feuilleaubois).

2. **Marsonia Toxicodendri** (Ell. et Mart.) Sacc. *Glœosporium* E. et 6883
M. in Journ. of Myc. 1885, p. 116. — Maculis amphigenis, albescentibus, parvis, 2 mm. diam., margine lato, obscuro cinctis; acervulis sparsis, paucis, obscure coloratis; conidiis oblongis, 1-septatis, 12-15 = 5-6.

Hab. in foliis vivis Rhois Toxicodendri, Charles City, Jowa Amer. bor. (Prof. J. C. Arthur).

3. **Marsonia Acaciæ** C. et Mass. Grev. XIX, p. 47. — Maculis ir- 6884
regularibus vel confluentibus, pallidis vel albidis, brunneo-marginatis, 0,5-1 cm. long.; acervulis gregariis, demum erumpentibus;

conidiis cylindraceis, utrinque rotundatis, arcuatis vel sigmoideis vel flexuosis, 40 ≃ 8, 1-septatis, ex hyalino brunneolis, granulosis, dein in cirros ejectis.

Hab. in phyllodiis Acaciæ, Victoria Australiæ (Mrs. MARTIN).

4. **Marsonia Rosæ** Trail F. Inverar. p. 46. — Maculis epiphyllis rufo-brunneis, infra brunneis; acervulis minutis, subinconspicuis; conidiis subcylindraceis, sæpe subfalcatis, 20-23 ≃ 6, hyalinis. 1-septatis, grosse granulosis. 6885

Hab. in foliis Rosæ tomentosæ, Tossachs Inver. Scotiæ. — Verisimiliter non diversa ab *Actinonemate Rosæ*. Etiam *Mars. Rosæ* (Bon.) Br. et Cav. F. Parass. n. 97 certe, et *Dicoccum Rosæ* Bon. probabiliter idem *Actinonema* spectant.

5. **Marsonia Myricariæ** Rostr. Bidr. Ascom. Dovr. p. 12. — Acervulis hypophyllis, gregariis, lenticularibus, pallidis; conidiis elongato-cylindraceis, 1-septatis, 24-28 ≃ 5-7. 6886

Hab. in foliis Myricariæ germanicæ, Foldalen Norvegiæ.

6. **Marsonia Quercus** Peck in 38 Rep. St. Mus. pag. 99. — Maculis angularibus vel suborbicularibus, albescentibus vel rufo-griseis, definitis; acervulis hypophyllis; conidiis oblongis v. subcylindraceis, rectis vel curvulis, medio leniter constrictis, obscure uniseptatis, 12-15 ≃ 2,5-4. 6887

Hab. in foliis vivis Quercus ilicifoliæ, Karner Amer. bor.

7. **Marsonia Betulæ** (Lib.) Sacc. F. Ard. n. 224, *Leptothyrium Betulæ* Lib. Crypt. II, n. 163 (1832), nec *Glœosporium Betulæ* Fuck., Sacc. Syll. III, p. 714. — Maculis irregularibus, subradiatis, fuscis; acervulis epiphyllis gregariis, planiusculis, oblongo-difformibus, subinde confluentibus, fuscis, rugosis, basi tandem circumscisis; conidiis oblongis, rotundatis, basi obtuse angulatis inæquilateralibus, 1-septatis, dein constrictis, 17-22 ≃ 8-10, granulosis, hyalinis. 6888

Hab. in foliis Betulæ albæ in Arduennis. — Affinis *M. Castagnei* et *M. Populi*, sed satis diversa videtur natura maculæ et proportione conidiorum.

8. **Marsonia stenospora** (Ellis et Kellerm.) Sacc. *Glœosporium* E. et K. in Journ. of Myc. 1886, p. 4. — Maculis amphigenis, sordide griseis, rotundis, $^1/_2$ cm. diam. sæpe confluentibus, margine nigro, elevato cinctis; acervulis punctiformibus, rotundis, fuscis, demum collabascentibus, epiphyllis sed etiam in pagina inferiore foliorum conspicuis, vulgo in centro macularum congestis; conidiis cylindraceis, uniseptatis, hyalinis, 18-20 ≃ $2^1/_2$, curvulis. 6889

Hab. in foliis vivis Populi moniliferæ, Manhattan, Kansas Amer. bor.

9. **Marsonia apicalis** Ell. et Ev. Proc. Acad. Phil. 1891, pag. 84. — Acervulis minutis, numerosis; conidiis oblongis vel oblongo-cylindraceis, hyalinis, 1-septatis, 12-20 ≃ 5-6, uno apice leviter tenuatis, sæpius erumpentibus ex pagina inferiore et in massulas albas concretis. 6890

Hab. in foliis vivis, quorum apex mox brunnescit et arescit, Salicis lucidæ, Racine Wisc. Amer. bor. (Davis).

10. **Marsonia nigricans** Ell. et Ev. Proc. Acad. Phil. 1891, p. 84. — Maculis amphigenis, supra nigricantibus, demum expallentibus, 0,5 cm. diam., infra rufo-brunneis, indefinite limitatis et confluentibus, subinde præsertim superne margine flavo anguste limbatis; acervulis parcis, 100-125 μ. diam. atris; conidiis clavato-ovatis, curvis, infra acutatis, 1-septatis, 14-16 ≃ 6, e pagina inferiore erumpentibus. 6891

Hab. in foliis Salicis, London Canada Amer. bor. (Dearness). — *Mars. Populi* est epiphylla et conidiis amplioribus pollet.

11. **Marsonia Salicis** Trail Fung. Hard. pag. 495. — Acervulis epiphyllis, minutis, verrucosis, sparsis vel hinc inde gregariis, atro-brunneis; conidiis fusoideis vel clavatis, subrectis vel sæpius falcatis, apice acutis, hyalinis, loculo basali multo minore, 10-12 ≃ 2,5-3; basidiis minutis. 6892

Hab. in foliis vivis Salicis, Simodal Norvegiæ.

12. **Marsonia obscura** Romell in litt. — Maculis epiphyllis, rufo-fuscescentibus; acervulis dense gregariis, perithecioideis, nigricantibus; conidiis piriformibus vel clavatis, supra medium 1-septatis nebulosis v. fumosis v. fere olivaceo-fuscellis, 18-40 ≃ 10-10,5. 6893

Hab. in foliis vivis Salicis (capreæ affinis), Norrtelge Sueciæ (H. Homberg).

13. **Marsonia brunnea** (Ell. et Ev.) Sacc., *Glœosporium* Ell. et Ev. Journ. Myc. 1889, p. 154. — Maculis epiphyllis, minutis, nigris, mox in areas magnas confluentibus et totam folii paginam in viridi-brunneum tingentibus; acervulis 1-3 in quaque macula, pallidis, amphigenis, demum subnigris; conidiis clavato-obpiriformibus, hyalinis, 1-septatis, loculo infero minore, 14-16 ≃ 5-7. 6894

Hab. in foliis Populi candicantis, Newfield, N. J. Americæ borealis.

14. **Marsonia Lorentzii** Speg. Guar. I, p. 157. — Maculis amphigenis, atris, stromaticis, coriaceis, determinatis, minutis, 0,5-0,7 mm. 6895

diam., sparsis; acervulis in quaque macula sæpius solitariis, subcutaneis, per ætatem lacero-erumpentibus, fuscis, lenticularibus, 100-120 μ. diam.; conidiis cylindraceo-clavulatis, 17-18 ≃ 3,5, sursum obtuse rotundatis, subtus truncatis, medio 1-septatis, non constrictis, hyalinis; basidiis papilliformibus, vix prominulis.

Hab. ad folia viva Quebrachiæ Lorentzii in silvis prope Yaguaron Brasiliæ.

II. *In Dicotyledoneis herbaceis.*

15. **Marsonia Melampyri** Trail Grev. XV, p. 110. — Maculis indefinitis subatris, demum fere nigris; acervulis sparsis vel aggregatis translucidis; conidiis oblongo-ellipsoideis, curvulis, hyalinis, 1-septatis, leviter constrictis, 12-20 ≃ 3-3,5, catenulis hyalinis cellularum, 3-4,5 ≃ 0,5 intermixtis. 6896

Hab. in foliis Melampyri pratensis pr. Ballater Scotiæ.

16. **Marsonia Potentillæ** (Desm.) Sacc. Syll. III, p. 770 — var. **Tormentillæ** Trail Grev. XV, p. 110. — A typo differt præcipue conidiis 12-16 ≃ 3-4. 6897

Hab. in foliis Tormentillæ, nec non Potentillæ anserinæ (con. 14-20 ≃ 4-5), Pot. Comari (con. 18-21 ≃ 3-4) prope Aberdeen Scotiæ.

17. **Marsonia Daphnes** (Desm. et Rob.) Sacc. Syll. III, p. 769. — var. **Passerinæ** Bäuml. F. Schemn. III, p. 15. — Conidiis basim versus 1-septatis, loculo supero rotundato v. rostrato, loculo infero semper rostrato, 14-16 ≃ 3-4,5; basidiis 4-6 ≃ 1,5, hyalinis. 6898

Hab. dense gregaria in caulibus Passerinæ annuæ prope Schemnitz in Hungaria.

18. **Marsonia Chamænerii** Rostr. Fung. Groenl. pag. 576. — Macula magna, irregulari, ochracea, late violaceo-cincta; acervulis epiphyllis, discoideis, pallide fuscis; conidiis obovato-ovoideis, hyalinis, inæqualiter 1-septatis, 28-34 ≃ 8-9. 6899

Hab. in foliis Epilobii (Chamænerii) angustifolii in Groenlandia.

19. **Marsonia Ipomœæ** Cooke et Mass. Grev. XVI, pag. 48. — Acervulis dense aggregatis, erumpentibus, cutem lacerantibus, dein fuscis et *Uredinem* imitantibus; conidiis anguste oblongis v. subcylindraceis, utrinque obtusis, 1-septatis, hyalinis, 10-15 ≃ 3, mox in cirros breves ejectis. 6900

Hab. in caulibus vivis foliisque Ipomœæ, Kew London Britanniæ.

20. **Marsonia Campanulæ** Bresad. et Allesch. in Allesch. et Schnabl F. Bav. n. 192. — Maculis minutis, suborbicularibus, ochraceis, fusco-cinctis; acervulis epiphyllis, tectis, lenticularibus, flavescentibus; conidiis subcylindraceis, sæpe inæqualibus, utrinque rotundatis, ut plurimum 1-septatis, guttulatis, nubilosis, 18-20 ≃ 4,5-5. 6901

Hab. in foliis vivis Campanulæ latifoliæ, Graswangthal pr. Oberammergau Bavar. super. (Allescher).

III. *In Monocotyledoneis et Acotyledoneis.*

21. **Marsonia graminicola** (E. et Ev.) Sacc., *Glœosporium* Ell. et Ev. Journ. Myc. 1889, p. 154. — Maculis amphigenis, nigris, subindefinitis, 2-3 mm. lat.; acervulis minutis, immersis; conidiis cylindraceis, 1-septatis, 15-22 ≃ 3-4, hyalinis, in cirros albos, minutos exeuntibus. 6902

Hab. in foliis vivis Graminacearum, London, Canada Amer. bor. (J. Dearness).

22. **Marsonia necans** (Ell. et Ev.) Sacc., *Glœosporium* E. et E. Journ. Myc. 1888, pag. 104. — Amphigena, sæpius epiphylla; maculis rubescenti-brunneis, 1-1,5 cm. diam.; acervulis erumpentibus, parvis, nigris, sæpe subelongatis, demum saltem flavis; conidiis oblongo-cylindraceis, hyalinis, obtusis, sæpius rectis, minute 2-3-guttatis, demum 1-septatis, 12-22 ≃ 4-5. 6903

Hab. in frondibus et caulibus Pteridis aquilinæ, Newfield, N. J. Amer. bor.

Sect. 4. Phragmosporæ.

STILBOSPORA Pers. — Syll. III, p. 771.

1. **Stilbospora foliorum** Cooke Grev. XX, p. 6. — Epiphylla; acervulis in maculis pallidis orbicularibus insidentibus, poris 3-4 pertusis, stromate applanato fultis; conidiis late ellipsoideis, utrinque subangustatis, 3-septatis, non constrictis, demum subopacis, 22 ≃ 8-9. 6904

Hab. in foliis emortuis Eucalypti, Victoria Australiæ (Martin).

2. **Stilbospora Cratægi** Rich. Cat. Champ. Marn. n. 1829. — Conidiis oblongis v. piriformibus, brunneo-viridibus, 3-septatis. 6905

Hab. in ramis emortuis Cratægi Oxyacanthæ, pr. Ablancourt, Marne Galliæ.

3. **Stilbospora? anceps** Passer. Diagn. F. N. IV, p. 15. — Acervulis 6906

irregularibus, tectis, depressis, atris; conidiis elongato-ellipticis, vix vel non stipitatis, 3-septatis, olivaceo-fuscis, 10-15 ≃ 4-5.

Hab. in glandibus dejectis Quercus Ilicis, Villa Reale, Caserta Ital. inf. — Propter conidia subsessilia, haud inquinantia, inter *Stilbosporam* et *Coryneum* ambigit.

CORYNEUM Nees. — Syll. III, p. 774.

1. **Coryneum cistinum** Cooke in Grevillea XIV, p. 5. — Stromatibus 6907
orbicularibus pulvinatis, convexis, atris cortice interiore insidentibus subinde gregariis, nunc tectis corticeque nidulantibus, nunc expositis; conidiis lanceolatis, utrinque obtusis, triseptatis, ad septa non constrictis, brunneolis, 56-55 ≃ 15-18; basidiis hyalinis, circiter conidia longitudine æquantibus, demum evanidis.

Hab. in ramis Cisti laurifolii, Kew London Britanniæ.

2. **Coryneum microstictum** B. et Br. Sacc. Syll. III, p. 775. — Var. 6908
Cydoniæ Brun. Champ. nouv. obs. env. Saintes, p. 7. — Conidiis 17-18 ≃ 5,5; basidiis 20-22 ≃ 1.

Hab. in ramis emortuis Cydoniæ vulgaris, Saintes Galliæ. — Var. **Photiniæ** Br. loc. cit.: conidiis 15 ≃ 5. In ramis emortuis Photiniæ glabræ, Saintes Galliæ.

3. **Coryneum Lauro-Cerasi** Prill. et Delacroix Bull. Soc. Myc. Fr. 1890, 6909
p. 179, Pl. XX, fig. IV. — Maculis amphigenis, fulvis v. ochraceis, saturatius marginatis, tandem a folio secedentibus; acervulis minutis, atris, primum tectis, dein erumpentibus; conidiis 5-7 septatis, sursum attenuatis, parte inferiori obtusiusculis, dilute fuscis, 60-80 ≃ 15-17; basidiis septatis, flexuosis, fuscis, intertextis, 180 ≃ 6-7.

Hab. in pagina superiore foliorum Pruni Lauro-Cerasi, Seine et Oise Galliæ. — Habitus est *Corynei Beijerinckii*, sed ceterum multum differt.

4. **Coryneum longistipitatum** Berl. et Bres. Micr. Trid. p. 80. — Stro- 6910
matibus sparsis, epidermide primo tectis, dein ea laciniatim fissa, emergentibus, atris, 0,5-1 mm. long., irregulariter elongatis vel subrotundis; conidiis copiosissimis, ovoideis, transverse 3-septatis; loculis omnibus æque coloratis, ad septa non v. vix constrictis, luteo-fuscescentibus, 18-20 ≃ 8-9; basidiis longissimis, 40-60 ≃ 2.

Hab. in ramis Pini communis, Magras Trento. — *C. Corni-albæ* affine.

5. **Coryneum viminale** Cooke et Mass. Grev. XX, p. 36. — Acervulis 6911
definitis, applanatis, sparsis, nigris, maculis definitis destitutis; co-

nidiis obovatis v. piriformibus, 1-2-septatis, non constrictis, 8-10 × 5-6, pallide purpureo-brunneis; basidiis longiusculis, filiformibus.

Hab. in foliis Eucalypti viminalis, Victoria Australiæ (Reader).

6. **Coryneum Camelliæ** Massee Grev. XX, pag. 8. — Epiphyllum; maculis irregularibus, latis, dealbatis, atro-marginatis; acervulis gregariis, epidermidem irregulariter vel lineariter et triangulariter erumpentibus; conidiis lanceolatis 30 × 10, loculis 2-4 mediis coloratis, terminalibus triangularibus, hyalinis; basidiis conidio subæquilongis. 6912

Hab. in foliis Camelliæ, Kew Britanniæ. — Videtur *Pestalozzia Guepini* mutica.

7. **Coryneum arbuticolum** (Sow.) Sacc. Bull. Soc. Myc. V, pag. 122, *Sphæria arbuticola* Sow. Rabenh. in Kl. n. 443. — Acervulis amphigenis, diu epidermide tumidula velatis, pulvinatis, compactis, nigris, nitidulis, 0,2-0,3 mm. lat. (sphæriæformibus); conidiis e basidiis brevibus subinde furcatis nascentibus, clavato-cylindraceis, dense parallele stipatis, 4-5-septatis, muco hyalino obvolutis, initio subhyalinis pluri-guttulatis dein olivaceo-fuligineis, 40-59 × 5-6, basi stromatica cellulosa crassiuscula, hyphis fuligineis, septatis cincta. 6913

Hab. in foliis subemortuis Arbuti (Arctostaphyli) Uvæ-ursi prope Dresden (Rabenhorst). — Stirps anceps, nonnullis notis *Exosporio* et præsertim *E. melampsoroidi* affinis, ceterum diversa quia innata et multo compactior; a *Coryneo* tamen quoque recedit conidiis compactissimis, cylindraceis a basidio parum discretis. *Sphæriam arbuticolam* Sow. Ill. Berkeley duxit ad *Diplodiæ* genus, quocum exemplar Rabenhorstii nil commune habet.

8. **Coryneum discolor** Fautrey in Rev. Myc. 1889, p. 152. — Acervulis globulosis v. difformibus, solitariis vel 3-pluribus gregariis, stromate fultis; conidiis cylindraceis, incurvis, vix clavatis, 5-septatis, loculis mediis primo hyalinis, dein cyaneis, demum brunneis, loculis extimis rotundatis, semper hyalinis, 28-32 × 11-13; basidiis fasciculatis, 15-20 × 3. 6914

Hab. in truncis Vitis viniferæ, Noidan Galliæ.

9. **Coryneum fagineum** Delacr. Bull. Soc. Myc. 1891, p. 107. — Acervulis gregariis, initio tectis, mox epidermide tumida apiceque pertusa erumpentibus; stromate fusco concaviusculo; conidiis ellipsoideis, utrinque obtusatis, semper trilocularibus, interdum subcurvulis, fusco-olivaceis, 35 × 12; basidiis hyalinis, granulatis tortuosis, 45-55 × 1,5. 6915

Hab. in cortice Fagi silvaticæ, Rigny-sur-Arroux Saône-et-Loire Galliæ.

10. **Coryneum opacum** Speg. F. Fueg. n. 434. — Acervulis cortice innatis, primo peridermio tectis, dein erumpentibus, difformibus, 0,5-2 mm. atris; conidiis clavulatis, apice obtuse rotundatis, basi truncatis, 90 × 24, rectis v. curvulis, primo pellucidis, 3-5-septatis, non constrictis, pedicello hyalino minuto mox fatiscente suffultis, dein opace atro-fuligineis. 6916

Hab. ad ramos emortuos Fagi antarcticæ in silvis prope Ushuwaia Fuegiæ.

11. **Coryneum betulinum** Schulz. Bot. Centr. 1883, XV, pag. 3. — Acervulis primo epidermide tectis, dein transverse erumpentibus, epidermide clavata cinctis, extus nigris, intus brunneis; conidiis disco immersis, fusiformibus, 1-5-septatis, 16-40 × 9-14, fuscis; basidiis hyalinis, ramoso-filiformibus usque ad 40 μ. vel parum ultra long. 6917

Hab. in ramis aridis Betulæ albæ, Djakovar Slavoniæ.

12. **Coryneum disciforme** K. et S. — Syll. III, p. 778 — ***C. ambiguum** Karst. Symb. XVII, p. 165. — Acervulis erumpentibus, peridermio cinctis, disciformibus, planis, orbicularibus v. angulatis, brunneo-atris, circ. 0,4 mm. diam.; conidiis 3-6-septatis, nunc fusoideis, subinde curvulis, sæpe apice subobliquis et pallidioribus, nunc clavatis, apice obtusis, totis dilute fuligineis, 40-63 × 17-21. 6918

Hab. in ramis aridis Quercus, Mustiala Fenniæ. — ***C. macrosporum** Karst. Symb. Fenn. XXIII, p. 2: conidiis clavatis obtusis, deorsum in basidia pedetentim attenuatis, 6-8-septatis, eguttulatis, parce subinde longitrorsum divisis, ad septa non v. leviter constrictis dilute fuligineo-flavidis, 75-115 × 19-22; basidiis filiformibus continuis, hyalinis, 40-65 μ. longis. Ad ramulos Tiliæ ulmifoliæ emortuos, in horto mustialensi Fenniæ (Onni Karsten).

13. **Coryneum tumoricolum** Peck 40 Rep. p. 63. — Maculis sparsis, suborbicularibus, pallidis, margine rubro-brunneo cinctis; acervulis epiphyllis, minutis, punctiformibus, inæqualibus, nigris; conidiis oblongis, 3-septatis, coloratis, 10-12,5 × 4, pedicellatis. 6919

Hab. in foliis vivis Ulmi americanæ in montibus Adirondack Amer. bor.

14. **Coryneum paraphysatum** Rostr. Fung. Groenl. p. 576. — Acervulis gregariis, depressis, fusco-atris, minutis; conidiis fusoideo-cylindraceis, fuscis, subsessilibus, 7-10-septatis, loculis extimis hyalinis; paraphysibus fuscis, filiformibus, conidiis longioribus intermixtis. 6920

Hab. in ramis Juniperi alpini, Tasermiut Groenlandiæ.

15. **Coryneum Comari** Trail Scot. Nat. 1887, p. 90 et Grev. XV, p. 110. — Acervulis in maculis atris, male definitis gregariis, circularibus, 50–60 μ. diam., poro conspicuo pertusis; conidiis melleis, in pallide brunneum vergentibus, rectis, late fusoideis, 25-30 × 4-5, triseptatis. 6921

Hab. in Potentilla Comaro pr. Aberdeen Scotiæ.

16. **Coryneum microstictoides** Sacc. et Penz. Syll. III, p. 774. — ***C. Epilobii** Karst. Symb. XVII, p. 164. — Acervulis sparsis v. subgregariis, emergentibus, ellipsoideis v. elongatis, epidermide demum fissa velatis, atris, circ. 0,3 mm. lat.; conidiis ovoideo-oblongatis, 3-septatis, ad septa vix constrictis, totis fuligineis, 13-16 ≃ 6-7; basidiis fasciculatis, conidio longioribus. 6922

Hab. in caulibus Epilobii angustifolii emortuis pr. Helsingforsiam Fenniæ.

17. **Coryneum Paspali** E. et Ev. Proc. Acad. Phil. 1891, p. 82. — Acervulis sparsis, erumpentibus, nigris 0,5 mm. diam.; conidiis oblongo-cylindraceis, brunneis, 6–9-septatis, 50–60 ≃ 10-12; basidiis brevibus. 6923

Hab. in culmis emortuis Paspali platycaulis, St. Martinsville, Louisiana Amer. bor. (Langlois).

HYALOCERAS Dur. et Mont. — Syll. III, p. 783.

1. *Eu-Hyaloceras.* Conidia utrinque monochæta.

1. **Hyaloceras parmense** Passer. Diagn. F. N. p. 15. — Acervulis subcutaneis ex epidermidis rima longitudinali erumpentibus, atris; conidiis elongatis, fuscis leniter curvis, 5-septatis, 22-25 ≃ 8-10, loculis polaribus minutis, hyalinis, setula obliqua hyalina, 8-10 μ. longa, ornatis; basidiis filiformibus conidio longioribus, hyalinis. 6924

Hab. in ramulis siccis Tamaricis gallicæ in horto botanico, Parma Ital. bor.

2. *Diploceras* Sacc. Conidia utrinque biseta.

2. **Hyaloceras dilophosporum** Cooke Grev. XIX, p. 5. — Epiphylla; acervulis gregariis, minutis, fuscis, erumpentibus, convexis subangulatis, centro irregulariter fisso, stromate submucoso; conidiis elongatis, subfusoideis, 25 ≃ 4, leniter curvatis triseptatis, ad septa non constrictis, pallide fuscis, utrinque setis binis divergentibus, hyalinis, ornatis. 6925

Hab. in foliis emortuis Leptospermi scoparii, Port Philip Australiæ (C. FRENCH, jun.).

3. **Hyaloceras hypericinum** (Ces.) Sacc. *Pest. hypericina* Ces. — Syll. III, p. 795. — Sec. Allesch. Centr. 1890, XLII, p. 106, species occurrit quoque in foliis Hyperici humifusi prope Sendling in Germania merid. et præbet conidia triseptata, cylindracea, curvula, 12-16 ≃ 3-4, utrinque rotundata, loculis mediis binis flavidis, 1-guttatis, extimis hyalinis, setis binis divergentibus, hyalinis instructis. 6926

PESTALOZZIA De Not. — Syll. III, p. 784, Vogl. Monogr. Pestal.

1. *Eu-Pestalozzia.*

I. *In Dicotyledoneis lignosis.*

1. **Pestalozzia Æsculi** Fautrey in Rev. myc. 1889, p. 153. — Acervulis sparsis, subcutaneis, dein erumpentibus, oblongis, brunneo-nigris, epidermide lacerata pro parte tectis; conidiis numerosissimis, ovato-oblongis, 3-septatis, medio constrictis, loculis centralibus brunneis, extimis minutis, hyalinis, conicis, 16-20 ≃ 8, subsessilibus, ciliis 2 divergentibus, hyalinis, 16 ≃ 1 coronatis. 6927

Hab. in Æsculo Hippocastano, Noidan Galliæ.

2. **Pestalozzia Sarothamni** Allesch. Bot. Centr. 1890, XLII, p. 106. — Conidiis elongatis, 1-septatis, griseo-brunneis, loculis 1-guttatis, apice setulis 3, conidio æquilongis, instructis, 20 ≃ 5; basidiis breviusculis. 6928

Hab. in ramis aridis Sarothamni scoparii prope Dachan, München Bavariæ.

3. **Pestalozzia funerea** Desm., Sacc. Syll. III, p. 791 — var. **algeriensis** Sacc. et Berl. in Rev. Myc. 1886. — A typo acervulis albidis, epidermide flavescente cinctis, nec non matrice differt. A *P. Rosæ* vero conidiis 4-septatis, loculis extremis subhyalinis ceterisque fuscis certe distinguenda. 6929

Hab. in ramulis emortuis Rosæ sempervirentis in Algeria.

4. **Pestalozzia suffocata** E. et E. in Journ. of Myc. 1886, p. 38. — Erumpens, in cirros atros ejecta; conidiis oblongo-fusiformibus, 22-26 ≃ 5-6, cellulis tribus mediis brunneis, apicalibus hyalinis, in basidium longitudinem conidii æquans attenuatis, apice setis tribus radiantibus, 25-30 μ. longis ornatis. 6930

Hab. in foliis vivis Rosæ, nonnullis diebus sub poculo vitreo servatis, in Amer. bor. (Prof. F. L. SCRIBNER).

5. **Pestalozzia intermedia** Sacc. Bomm. et Rouss. F. myc. Belg. II, p. 45. — Acervulis cupulatis, gregariis, nigris, dein erumpentibus, secus ligni fibras in series dispositis; conidiis ellipsoideis, 3-septatis, eguttatis, 13–15 × 4-5, loculis mediis olivaceo-pellucidis, loculis extimis hyalinis, apice setula subtortuosa, 13–21 μ. long., interdum 2–furcata v. rarius setulis 2 præditis; basidiis filiformibus, 24-29 μ. long. e basi ramosis, setula superiore conformibus et persistentibus. 6931

Hab. in ramulis vetustis Rosæ pomiferæ, sociâ *Sphæruliná intermixtâ*, Yvoir Belgii.

6. **Pestalozzia Sorbi** Pat. in Rev. Myc. 1886, pag. 182. — Acervulis parcis, in macula orbiculari, rufa sparsis; sporulis fusiformibus, 4-septatis, loculis extimis hyalinis, mediis brunneis, 1-guttulatis, 16 × 6, ad septa vix constrictis, setis duabus divergentibus apice præditis; basidiis brevibus. 6932

Hab. in foliis Sorbi, Yunnam Sinarum (Ab. Delavay).

7. **Pestalozzia adusta** E. et E. Journ. Myc. 1888, pag. 51. — Acervulis amphigenis, minutis, sparsis, prominentibus, globosis v. conicis, nigris; conidiis clavato-oblongis, 4-septatis, 12-15 × 5–6 (parte colorata), loculis 3 mediis pallide brunneis, apicalibus hyalinis, supra setulis 2-3 patentibus, hyalinis, 8-12 μ. long. præditis. 6933

Hab. in apice et margine foliorum Pruni domesticæ cultæ, Newfield, N. J. Amer. bor.

8. **Pestalozzia versicolor** Speg., Syll. III, p. 790 — var. **guaranitica** Speg. Guar. I, p. 158. — Maculis irregularibus, determinatis, 3–5 mm. diam., sordide griseo-aridis, demum deciduis; acervulis epiphyllis, dense sparsis, lenticularibus, 90-100 μ. diam.; conidiis fusoideo-ellipsoideis, medio tumidulis, utrinque acutis, 20-25 × 12–16 apice setulis 2 simplicibus, oppositis, crassiusculis 20-22 × 1, coronatis, 4-septatis, loculis 2 extimis hyalinis, 2 intermediis fusco-flavescentibus, intimo olivaceo, opaco; basidiis tenuissimis, 8-10 × 0,5. hyalinis. 6934

Hab. ad folia viva coriacea Myrtaceæ, in silva Caá-Guazù Brasiliæ.

9. **Pestalozzia Camelliæ** Pass. Rev. myc. 1887, p. 146. — Acervulis sparsis, minutis, punctiformibus, primo tectis, dein nudatis, atris; conidiis oblongis v. oblongo-clavatis, 3-septatis, ad apicem rotundatum setis 2 tenuibus, divaricatis, articulos duos pænultimos subæquantibus præditis, hyalinis, 25 × 5. 6935

Hab. in ramulo subvivo Camelliæ japonicæ in frigidariis Parma Ital. bor.

10. **Pestalozzia inquinans** Karst. in Hedw. 1891, p. 301. — Acervulis epiphyllis, macula orbiculari expallente fusco-cincta 1,5 cm. lata insidentibus, erumpenti-superficialibus, subsphæroideis, ovoideis v. tereti-oblongatis, punctiformibus, atro-fœdantibus; conidiis fusoideo-oblongatis, rectis, 4-septatis, loculis intermediis pellucide fuligineis, extimis acutato-conoideis, hyalinis, 16-18 × 6-7, setulis apicalibus 2, rarissime 1 v. partitione 3, divergentibus, subæqualibus, hyalinis, 15-35 μ. long. 6936

Hab. in foliis vivis Camelliæ cultæ, Helsingfors Fenniæ (O. Karsten). — A *P. Guepini* acervulis subsuperficialibus, conidiis parcius ciliatis differt; «an satis?».

11. **Pestalozzia conglomerata** Bres. Rev. Myc. 1891, p. 68. — Superficialis; acervulis dense gregariis, punctiformibus, applanatis, atris, in tomento albo nidulantibus; conidiis oblongo-fusoideis, 5-locularibus, ad septa subconstrictis, loculis 3 interioribus fuscis, 2 extimis, hyalinis, conoideis, 25-30 × 7-8, apice ciliis 2-5 incurvis, 10-15 × 0,7-1 ornatis; basidiis filiformibus, hyalinis, 12-20 × 1,5, mox deciduis et ad conidia immatura tantum conspicuis. 6937

Hab. in pericarpio Anonæ, Suadade, St. Thomé in sinu Guineæ (Moller).

12. **Pestalozzia fibricola** Grove in Journ. of Bot. 1886, pag. 198, tab. 266, fig. 7. — Acervulis parvis, atris, gregariis, fibras elevantibus, et demum findentibus; conidiis erumpentibus, ellipticofusiformibus, 4-septatis, 17-18 × 5; loculis 3 interioribus olivaceis, sæpe guttulatis, medio saturatiori, superiori hyalino, conoideo, elongato, 4-5 μ. alto, setas 1-3 hyalinas, 12-18 μ. longas, patenti-recurvas gerente; inferiori hyalino, brevi, triangulari; basidiis brevissimis, 3-5 μ. longis. 6938

Hab. inter fibras libri Tiliæ ad usum horticultorum parati, Sutton prope Birmingham Brit. — Cum plantis e Germania sine dubio importata. Loculo medio conid. saturatiori at non opaco a *P. longiseta* distincta. Setæ inter se basi breviter connatæ. Setæ duæ sæpissime inveniuntur; quum unica, solito est longior. Cum *P. funerea* var. *discolori* species comparanda.

13. **Pestalozzia Rhamni** Celotti Mic. Montpell. p. 11, f. 6. — Acervulis sparsis, minutis, atris, primum epidermide tectis, dein erumpentibus; conidiis fusoideis, 3-4-septatis, 25-30 × 5-7, loculis extremis hyalinis, intermediis dilute fuligineis, setulis 2 filiformibus, divaricatis, 10-13 μ. long. 6939

Hab. in ramis siccis Rhamni Alaterni, Montpellier Galliæ.

14. **Pestalozzia uvicola** Speg., Syll. III, p. 789 — Sec. Prill. et Delacr. in Bull. Soc. Myc. V, p. 124, nascitur, præterquam in baccis, etiam in maculis foliorum Vitis viniferæ in Gallia.

15. **Pestalozzia affinis** Sacc. et Vogl. in Vogl. Sul Gen. Pestalozzia p. 10, t. VIII, f. 6. — Acervulis laxe gregariis, minutis, dein suberumpentibus, atris, subgloboso-oblongis, nigris; conidiis ovoideis, 3-septatis, loculis 2 interioribus fuligineis, extimis hyalinis, 14-20 = 6-8; aristis 4-5, filiformibus, divaricato-ramosis, 18-25 μ. longis; basidiis filiformibus, 30-50 = 2, rarius usque ad 70 μ. longis. 6940

Hab. in ramis corticatis Vitis et Juglandis pr. Malmedy Galliæ.

16. **Pestalozzia Corni** Allesch. Bot. Centr. 1890, XLII, p. 106. — Conidiis fusoideis, 5-septatis, loculis mediis 2 adjunctis brevioribus et cum iis brunneolis, sæpius 1-guttatis, loculis extimis hyalinis, conicis, minutissimis, supero setula 2-3-fida vel dichotomice ramulosa coronatis, 24-30 = 8-10; basidiis tenuibus. 6941

Hab. in ramis aridis Corni albæ, Isaranlagen prope Flaucher, München Bavariæ.

17. **Pestalozzia cornifolia** E. et E. Journ. Myc. 1888, p. 51. — Maculis rotundis, brunneis, 3-4 mm. diam., margine angusto, subelevato, nigro cinctis, extus folii superficie purpurea limitatis; acervulis punctiformibus, nigris, levibus, parte prominentibus, epiphyllis; conidiis oblongo-ellipsoideis, 4-septatis, basi acutis, supra setis 3, hyalinis, patentibus, 8-15 μ. long. præditis, loculis mediis brunneis vel opacis, apicalibus hyalinis. 6942

Hab. in foliis vivis Corni sericeæ, St. Gabriel Louisiana Amer. bor. (Langlois).

18. **Pestalozzia gibbosa** Harkn. F. Pacif. V, p. 439. — Epiphylla; acervulis nigris, erumpentibus; conidiis ellipsoideis, incurvis, 24 = 8, 4-septatis, loculis 2 inferis pallide brunneis, 2 eis superpositis, atris, apicali hyalino, setulis 3, apice capitatis, 40 μ. long. coronatis. 6943

Hab. in foliis subemortuis Gaultheriæ Shallon, Pointes Reyes Amer. bor.

19. **Pestalozzia kalmicola** E. et E. Journ. Myc. 1888, p. 51. — Acervulis epiphyllis, minutis, sparsis, in lineas parallelas, subundulatas dispositis; conidiis pallide brunneis, 4-septatis, fusoideis, 18-22 = 5-7, loculo terminali parvo, hyalino, setulis 3, brevibus, 5-7 μ. long., patentibus, tenuibus, dein apice incrassatis coronato. 6944

Hab. in apice dealbato foliorum viventium Kalmiæ latifoliæ, Wilmington, Del. Amer. bor. (A. Commons).

20. **Pestalozzia maura** E. et E. Journ. Myc. 1888, p. 123. — Acer- 6945
vulis amphigenis, subprominulis, nigris minutis, maculis rotundis, rubro-brunneis, 2–3 mm. diam. insertis; conidiis obovatis, basi acutis, 3-septatis, atris, subopacis, 12–15 ≍ 6–8, apice obtuso, setulis 3 horizontaliter deflexis, 15–20 μ. long. præditis, loculo basali hyalino, acuto; basidiis conidio brevioribus.

Hab. in foliis Psychotriæ rufescentis, Halifax River, Florida Amer. bor.

21. **Pestalozzia Banksiana** Cavara App. Pat. Veg. pag. 13. tab. VI, 6946
fig. 15-16. — Acervulis conicis albido-griseis, erumpentibus, sparsis, epiphyllis 200–250 μ. diam. in maculis cinerescentibus; conidiis ellipticis, utrinque angustatis, 20–22 ≍ 6, quinque-cellularibus, ad septa non vel minime constrictis, loculis mediis olivaceis, extimis hyalinis; basidiis filiformibus 12–16 μ. longis; ciliis tribus valde divaricatis.

Hab. in foliis Banksiæ speciei cultæ, Pavia Ital. bor.

22. **Pestalozzia versicolor** Speg. Sacc. Syll. III, p. 790 — var. **Cu-** 6947
paniæ Sacc. et Berl. Misc. Myc. II, p. 11. — A typo aliquid differt basidiis paullo longioribus, nempe 15–16 ≍ 2; conidiis 30–32 ≍ 10–12, partis coloratæ loculis duobus sup. fuligineis, inferiore pallidiori; setis subternis, 30–33 ≍ 2.

Hab. in foliis Cupaniæ anacardioidis, Logan Australiæ.

23. **Pestalozzia gongrogena** Temme in Thiel's Landw. Jahrb. XVI, 6948
1887, p. 437, F. Ludwig in Berichte D. Bot. Gesell. 1890, p. 218.

Hab. in ramis Salicis viminalis et S. undulatæ, in quibus tumores (*Weidenkropfen*) efficit, in Borussia et Saxonia. Diagnosis adhuc desideratur (sec. cl. Doct. F. Ludwig in litt., cui gratias plurimas ago).

24. **Pestalozzia montellica** Sacc. et Vogl. in Vogl. Sul Gen. *Pesta-* 6949
lozzia p. 9, t. IX, f. 21. — Acervulis epiphyllis, minutis, nigris, dense gregariis, non fœdantibus, macula nulla vel obsoleta; conidiis fusiformibus, 4-septatis, 20–25 ≍ 8, loculis intermediis semiopacis, extimis hyalinis; aristis 3-4, 20–25 ≍ 1, una superiore ex vertice loculi oriunda, ceteris ad basim ejusdem nascentibus, horizontali-deflexis; basidiis hyalinis, 25 ≍ 1.

Hab. in foliis Quercus in silva Montello agri tarvisini Ital. bor. (Saccardo).

25. **Pestalozzia microspora** E. et E. Journ. Myc. 1888, pag. 46. — 6950
Acervulis amphigenis, prominentibus, nigris, crebre sparsis, maculis definitis destitutis; conidiis anguste ellipsoideis, 3-septatis, pal-

lide brunneis, loculis terminalibus hyalinis exceptis, setulis 10-12 μ. long. terminatis, parte colorata circ. 7-9 ≃ 4; basidiis gracilibus, 20-25 μ. long.

Hab. in foliis dejectis Quercus coccineæ, Newfield, N. J. Amer. bor.

26. **Pestalozzia Casuarinæ** Cooke et Mass. Grev. XVI, pag. 114. — 6951
Acervulis gregariis, minutis, ellipticis, pustulæformibus, epidermide fissa cinctis; conidiis fusiformibus, loculis duobus centralibus fuscis, 10-12 ≃ 6-7, loculo superiori conoideo, hyalino, aristato; aristis 3, divergentibus (cum conidiis 45-50 μ. long.); basidiis hyalinis, sursum incrassatis.

Hab. in ramis Casuarinæ, Melbourne (Miss Campbell).

27. **Pestalozzia peregrina** Ellis et Mart. in Journ. of Myc. 1885. — 6952
Acervulis hysteriiformibus, primo epidermide velatis, dein partim erumpentibus; conidiis oblongo-ellipsoideis vel obovatis, 4-septatis, utrinque cellula acuta, subconoidea, hyalina, cellulis intermediis brunneis; setis tribus, hyalinis, 7-10 μ. longis; basidiis circiter longitudinem conidiorum æquantibus, cellulis coloratis 12-16 ≃ 6-7.

Hab. in foliis emortuis sed adhuc stantibus Pini austriacæ, Newfield Amer. bor. — A *P. funerea* conidiis minoribus differt.

28. **Pestalozzia abietina** Vogl. Sul Gen. *Pestalozzia* pag. 10, t. VIII, 6953
fig. 3. — Acervulis sparsis, subimmersis, primum tectis demum erumpentibus, aterrimis; conidiis ellipticis, 18-21 ≃ 5-7, 3-septatis, ad septa non vel vix constrictis, loculis 2 extimis hyalinis, intermediis fuligineo-atris; aristis 2-3, hyalinis, 14-18 ≃ 1; basidiis filiformibus, 18-27 ≃ 2.

Hab. in strobilis Abietis excelsæ in silvis Collecchio pr. Parma Ital. bor. (Passerini) et prope Massachussetts Amer. bor.

29. **Pestalozzia conorum-Piceæ** Tubeuf Bot. Centr. 1889, III, p. 134. 6954
— Acervulis nigris, erumpentibus; conidiis ovato-oblongis, 16-20 ≃ 6, loculis binis interioribus coloratis, 12-14 ≃ 6, loculis extimis acutis, hyalinis delabentibus; setulis binis ternisve, 20 μ. longis.

Hab. in conis dejectis Abietis pectinatæ in Germania et Amer. bor. — Teste auctore, species edita fuit in Ellis N. A. F. nomine *P. truncatulæ* et in Rab. F. E. n. 2462 nomine *P. conigenæ*, a quibus differt.

30. **Pestalozzia Hartigii** Tubeuf Beitr. Baumkr. p. 40, t. V. — Acer- 6955
vulis immersis, globosis, stromate applanato, tenui fultis; conidiis in massulas nigras erumpentibus, primo hyalinis, continuis, dein 3-septatis, ovato-oblongis, loculis binis mediis magnis, minute plu-

riguttulatis, coloratis, terminalibus parvis, hyalinis, 18–20 μ. long., setulis 1–4, tenuibus, hyalinis, 20 ≃ 1 apice præditis; basidiis filiformibus, tenuibus, hyalinis, 30–50 μ. long.

Hab. in cortice trunci Abietis excelsæ et pectinatæ, Hain in Spessart Bavariæ. — *P. truncatæ* affinis.

31. **Pestalozzia Sabinæ** Fautrey Rev. Myc. 1891 Oct. — Acervulis 6956
sparsis, mediis, nigris, epidermide cinctis; conidiis fusoideis v. oblongis 20-22 ≃ 7-8, triseptatis, loculis binis mediis fuligineis, extimis hyalinis; seta unica in 2-3 ramulos divergentes divisa, 20-25 ≃ 0,7.

Hab. in ramulis adultis Juniperi Sabinæ cultæ, Noidan, Côte-d'Or Galliæ.

32. **Pestalozzia austro-caledonica** Crié Depaz. p. 55, t. VIII, 27 δ, 6957
Voglino Pest. p. 32. — Conidiis elliptico-ovoideis 40 ≃ 14, biseptatis, coloratis, crasse 2-guttatis; setis ternis, 17-20 ≃ 1,5.

Hab. in foliis Jonidii, Bignoniæ et Melodii in Nova Caledonia. — In textu p. 42 cl. Crié speciem suam *P. Novæ-Caledoniæ* nuncupat.

33. **Pestalozzia grandis** Berk.? Crié Depaz. p. 55, t. VIII, f. 27 δ, 6958
Voglino Pest. p. 32. — Conidiis ovoideis 44 ≃ 14, triseptatis, subhyalinis, crasse guttatis; setis ternis vel quaternis 17-25 ≃ 1, subinde ramulosis; basidiis 40 ≃ 2.

Hab. (locus et matrix ignota). — In operibus Berkeleyanis species desideratur.

II. *In Dicotyledoneis herbaceis.*

34. **Pestalozzia Potentillæ** Rich. Cat. Champ. Marn. 1842. — Coni- 6959
diis fusoideis, 3-septatis, apice ciliis conidio longioribus coronatis.

Hab. in caulibus siccis Potentillæ reptantis, St.-Amand Galliæ.

35. **Pestalozzia Nummulariæ** Har. et Br. Journ. de Bot. 1891, p. 172. 6960
— Macula amphigena, vage limitata, brunneo-flava; acervulis minutissimis, 1/6–1/5 mm. diam., concoloribus; conidiis ovato-oblongis, 3-septatis, loculis mediis opacis, extremis conicis, hyalinis, 16–20 ≃ 7, loculo supero ciliis 2-3, sæpius ramosis, divaricatis, hyalinis, 18-20 ≃ 1; basidiis hyalinis, 16-20 μ. long.

Hab. ad folia ægrotantia Lysimachiæ Nummulariæ, Châtres pr. Méry-sur-Seine Galliæ (P. Hariot).

36. **Pestalozzia paraguayensis** Speg. F. Guar. II, n. 180. — Maculis 6961
amphigenis orbicularibus minutis 0,5–1 mm. sæpius marginalibus

determinatis candidis, zona purpurascente cinctis; acervulis amphigenis in centro macularum solitariis vel pauci-aggregatis, minutis, 80-100 μ. diam., atris, erumpentibus; conidiis obovatis vel subclavulatis 20 ≃ 7, 4-septatis, ad septa constrictulis, loculis 2 extimis minutis hyalinis, 3 internis olivaceis, infero sæpius pallidiore, apice rostellis 2-3 hyalinis brevibus ac crassis 5-10 ≃ 1,5 divaricatis ornatis, inferne pedicello brevissimo 5 ≃ 1 hyalino suffultis.

Hab. ad folia viva Euphorbiæ speciei cujusdam, socia *Phyllostictâ* immaturâ, in herbosis silvæ Caá-guazú Brasiliæ.

III. *In Monocotyledoneis.*

37. **Pestalozzia Chamæropis** Passer. Diagn. F. N. IV, n. 131. — Acervulis in matrice immutata sparsis vel gregariis, punctiformibus fuscis; conidiis fusiformi-clavatis bi- triseptatis, apice ciliis duobus divaricatis coronatis, breviter pedicellatis, fumosis, parte colorata 15 ≃ 5, loculo supremo cum crista secedente. 6962

Hab. in petiolo sicco Chamæropis humilis, Parma Ital. bor. — A *P. Phœnicis* differt maculæ defectu et conidiis minoribus; a *P. Palmarum* conidiis biciliatis.

38. **Pestalozzia Liliorum** Rich. Cat. Champ. Marn. n. 1844. 6963

Hab. ad basim caulis Lilii candidi, Marne Galliæ.

39. **Pestalozzia tubericola** Pass. in Mart. Fl. Bog. p. 148. — Peritheciis minutis, punctiformibus, innatis, sparsis, fusco-atris; conidiis fusiformibus, dilute flavidis, 3-4-septatis, setis 3-4 plus minus longis, stellatim patentibus, deciduis coronatis. 6964

Hab. in tubere exsiccato forsitan Orchideæ, Keren Abyssiniæ.

40. **Pestalozzia aquatica** Ell. et Ev. Journ. Myc. 1889, pag. 157. — Maculis amphigenis, castaneis, 0,5–1 cm. diam., concentrice corrugatis, margine obscuriore, angusto, cinctis; acervulis epiphyllis, erumpentibus, $^1/_4$-$^1/_3$ mm. diam., nigris, convexis, dein concavis; conidiis obovatis, 18-20 ≃ 6-7, quadriseptatis, loculis terminalibus hyalinis, loculo sequente infero subhyalino, 2 mediis atris, apice setulis 3, validis, 15-20 ≃ 1, hyalinis, divaricatis præditis. 6965

Hab. in foliis vivis Peltrandæ virginianæ, Newfield, N. J. Amer. bor.

2. *Monochætia* Sacc.

41. **Pestalozzia Everharti** Sacc. *P. affinis* Ell. et Ev. Journ. Myc. 1889, p. 156, nec S. et V. — Acervulis innatis, erumpentibus, amphigenis; conidiis acute ellipsoideis, pallidis, 15 ≃ 5 (inter septa ex- 6966

trema), 4-septatis, apice setula obliqua, 7 μ. long., apicali præditis, in massas nigras erumpentibus; basidiis conidio brevioribus.

Hab. in foliis vivis Castaneæ? v. Æsculi? (*Japan Chestnut*), Lafayette, Louisiana Amer. bor.

42. **Pestalozzia phyllostictea** Sacc. Misc. Myc. II, p. 25, t. XI, f. 32. 6967
— Maculis arescendo expallentibus, variis; acervulis punctiformibus, vix erumpentibus; conidiis oblongis, 4-septatis, 20-22 ≃ 7-8, loculis 3 mediis fuligineis, extimis minutis, hyalinis, arista curvula unica, 4-6 μ. longa; stipite filiformi, 15-20 ≃ 1,5.

Hab. in foliis Rubi fruticosi in Gallia (Roumeguère). — *Pestalozziæ comptæ* et *P. monochætæ* subaffinis, a quibus præcipue arista brevi, curva et stipite brevi diversa.

43. **Pestalozzia compta** Sacc. Syll. III, p. 798 — var. **ramicola** Berl. 6968
et Bres. Micr. Trid. p. 81. — Acervulis sparsis, nitidis, atris; conidiis oblongo-fusoideis, 3-septatis, 12-15 ≃ 5, utrinque acutiusculis, loculis 3 centralibus, melleo-fuscis, extimis hyalinis, apice 1-setigeris, basidiis longiusculis suffultis.

Hab. in ramulis emortuis Rosæ caninæ prope Trento. — Quoad *P. seiridioidem* Sacc. cfr. Berl. et Bres. Micr. Trid. p. 81, t. VI, f. 9.

44. **Pestalozzia discosioides** E. et E. Journ. Myc. 1888, pag. 51. — 6969
Maculis sordide brunneis, circ. 1 cm. diam., suborbicularibus; acervulis epiphyllis, erumpenti-superficialibus, sæpius elongatis, hysteriiformibus, $^1/_4$-$^1/_3$ mm. long.; conidiis oblongo-fusoideis, subcurvulis, 3-septatis, flavido-hyalinis, loculis mediis terminalibus, paullo obscurioribus, 12-15 ≃ 2,5, apice vel prope apicem setulâ obliquâ, 3-5 μ. long.; basidiis granulosis, conidio subæquilongis.

Hab. in foliis vivis Rosæ, Faulkland, Del. Amer. bor, (A. Commons).

45. **Pestalozzia monochætoidea** Sacc. Syll. III, p. 798 — var. **affinis** 6970
Sacc. et Briard in Rev. Myc. 1886. — Acervulis sparsis, punctiformibus vel oblongis, brunneis, erumpentibus; sporulis ovato-ellipticis, rotundatis v. basi attenuatis, rectis v. leniter curvulis, 3-septatis, loculo superiore conoideo, hyalino, inferiore obtusiore obscurioreque, intermediis olivaceis, pellucidis, 12-16 ≃ 6-7, cilio unico, obliquo, 10 ≃ 1; basidiis filiformibus, 10 ≃ 1.

Hab. in sarmentis emortuis Vitis viniferæ, Troyes Galliæ (Briard).

46. **Pestalozzia viticola** Cavara Dissecc. grapp. p. 28, t. III, f. 15-16. 6971
— Maculis brunneis, variis, inæqualibus; acervulis lenticularibus,

erumpentibus; conidiis ovato-ellipticis v. cylindraceis, 14–20 ≃ 5–6, basi attenuatis, curvulis, 3–5-septatis, loculo superiore obtusiore hyalino, inferiore conoideo hyalino, intermediis olivaceis, cilio unico obliquo, 10–12 ≃ 1; basidiis filiformibus.

Hab. in baccis Vitis viniferæ, Stradella Ital. bor.

47. **Pestalozzia sarmenti** Passer. Diagn. F. N. IV, p. 15. — Acervulis sparsis v. paucis lineatim gregariis, epidermidem sublevantibus et per longitudinem findentibus; conidiis fusiformibus, triseptatis, loculis duobus intermediis castaneis, extimis hyalinis, 12,5 ≃ 5; seta terminali unica, recta v. declinata, conidium subæquante vel superante; basidiis longissimis, conidio pluries longioribus. 6972

Hab. in cortice vetusto sarmentorum Vitis viniferæ, Vigheffio pr. Parma.

48. **Pestalozzia Syringæ** Oud. Contr. Mycol. XIII, pag. 58, f. 40. — Conidiis piriformibus v. oblongis, subinde inæquilateralibus, 3-septatis, 15-20 ≃ 6-7, loculis pallide fuscescentibus, extremis pallidioribus, apice cilio unico, 7 μ. long., hyalino tantum præditis, basi in caudam 7 μ. circ. long., a basidio diffracto superstitem, protractis; basidiis 35 μ. long., hyalinis. 6973

Hab. in ramulis Syringæ vulgaris, Rijswijk Nederlandiæ (Destrée).

49. **Pestalozzia consocia** Peck 39 Rep. p. 48, t. I, f. 8-9. — Maculis latissimis, folii dimidium interdum occupantibus, irregularibus, supra rubro-brunneis, subtus pallidioribus; acervulis amphigenis, minutis, punctiformibus, nigris; conidiis oblongo-fusoideis, 30-35 ≃ 7,5, apice setula 22,5-27,5 μ. long. præditis, 5-septatis, loculis 4 mediis coloratis. 6974

Hab. in foliis vivis Hamamelidis virginianæ, sociâ *Phyllostictâ Hamamelidis*, Day Amer. bor.

50. **Pestalozzia depazeæformis** Auersw. in Œsterr. bot. Zeitschr. 1868, p. 209. — Peritheciis (spuriis?) epiphyllis, maculis cinerescentibus atro-purpureo-marginatis, sparsim insidentibus; conidiis oblongis, fuscis, 3-septatis, 18 ≃ 8, apice seta unica coronatis. 6975

Hab. in foliis Arbuti Uvæ-ursi pr. Seis Tiroliæ australis (Heufler). — Habitus fere *Depazeæ* seu *Phyllostictæ*.

51. **Pestalozzia alnea** Har. et Br. Journ. de Bot. 1891, pag. 172. — Maculis aridis, brunneo-cinereis, orbicularibus, amphigenis, 5-7 mm. diam., linea brunnea, obscure circumcinctis; acervulis epiphyllis, punctiformibus, innatis, per epidermidem erumpentibus, rugosis, atris, 1/5-1/4 mm. diam.; conidiis ovato-oblongis, utrinque acutatis, 6976

3-4-septatis, ad septa constrictulis, loculis mediis fuligineis, extremis hyalinis, 16-20 ≃ 6-8, cilio hyalino sæpius arcuato, apice attenuato, 12-16 ≃ 1-1,5; basidiis filiformibus, 12-16 ≃ 1.

Hab. in foliis ægrotantibus Alni glutinosæ, Ville-sur-Terre, Aube Galliæ (P. Hariot).

52. **Pestalozzia nervalis** Ell. et Ev. Journ. Myc. 1889, pag. 157. — 6977
Acervulis subhysterioideis; conidiis angustis, ellipsoideis vel latis, oblongo-fusoideis, 4-septatis, loculis terminalibus hyalinis, parte colorata (loculis 3 mediis), circ. 14 × 6, loculo infero hyalino, 8-9 μ. long., apice setula obliqua, 8-9 μ. long. præditis.

Hab. in foliis vivis Quercus albæ, Racine, Wis. Amer. bor. (Doct. J. J. Davis).

53. **Pestalozzia uncinata** Ell. et Kell. Journ. Myc. 1889, p. 143. — 6978
Hypophylla, gregaria; peritheciis (?) scutatis, $^1/_4$-$^3/_4$ mm. diam.; conidiis oblongis, pallidis, 4-septatis, ad septum secundum superum constrictis, 18-22 × 5-7, setula brevi, 5-7 μ. long., valida, curva apice præditis; basidiis gracilibus, 15-20 μ. long.

Hab. in foliis emortuis Quercus tinctoriæ, St. George Kansas Amer. bor. (Kellerman), sociâ *Chætophomâ maculosâ.*

54. **Pestalozzia pallida** E. et E. Journ. Myc. 1888, p. 46. — Macu- 6979
lis definitis nullis; acervulis sæpius hypophyllis, sparsis, erumpentibus, discoideis, 75-150 μ. diam.; conideis fusoideis, 3-4-septatis, loculis interioribus hyalino-flavidis, terminalibus omnino hyalinis et acutis, superiore in setulam 7-9 μ. long., incurvam productis, 12-14 × 3-3,5; basidiis 8-11 μ. long., subinde basi ramosis.

Hab. in foliis dejectis Quercus albæ, New Jersey (Ellis), Ohio Amer. bor. (Doct. W. A. Kellerman). — *P. pallida* E. et Martin Journ. Myc. 1888, p. 104 eadem videtur.

55. **Pestalozzia taphrinicola** E. et E. Journ. Mycol. 1888, p. 104. — 6980
Acervulis amphigenis, minutis, punctiformibus, nigris; conidiis fusoideo-oblongis, pallide brunneis, 3-4-septatis, ad septa sæpius constrictis, 16-22 × 6-7, setula apicali, obliqua, 4-7 μ. long. præditis; basidiis 6-8 μ. long.

Hab. parasitica in Taphrina cœrulescente, in foliis Quercus albæ et Q. coccineæ, Newfield, N. J. et Louisiana Americæ borealis.

56. **Pestalozzia camptosperma** Peck 39 Rep. p. 48, t. I, f. 10-11. — 6981
Acervulis minute cæspitosis, hypophyllis; conidiis fusoideis, curvis, 3-septatis, 20-30 × 7-8, loculis 2 centralibus coloratis, 12,5 μ. long.,

loculo apicali hyalino, conico, in mucronem acuminatum desinentibus, loculo infero in basidium breve attenuatis.

Hab. in foliis emortuis Abietis balsameæ in montibus Adirondack Amer. bor.

3. *Pestalozzina* Sacc.

57. **Pestalozzia Fautreyi** Karst. et Roum. Rev. Myc. 1890, n. 47 (*Pestalozzina*). — Acervulis sparsis v. subgregariis, planiusculis, orbiculatis, primitus subcutaneis, atris, intus fuligineis, punctiformibus; conidiis elongatis v. cylindraceis, rectis v. curvulis, 3-septatis, ad septa non constrictis, hyalinis, 26-28 × 4, setulis 4-6 apicalibus, 15-25 × 0,5 instructis. 6982

Hab. in ramulis aridis Loniceræ Caprifolii pr. Noidan Galliæ (F. Fautrey).

SEPTOGLŒUM Sacc. Syll. III, p. 801.

1. **Septoglœum Ampelopsidis** (Ell. et Ev.) Sacc., *Glœosporium* Ell. et Ev. Journ. Myc. 1889, p. 155. — Maculis irregularibus, angulosis, folii venulis limitatis, 2-3 mm. diam., viridulis; acervulis amphigenis, prominulis; conidiis clavato-cylindraceis, 5-9-septatis, 30-35 × 4-4,5. 6983

Hab. in foliis languidis Ampelopsidis quinquefoliæ, Racine, Wis. Amer. bor. (Doct. J. J. Davis).

2. **Septoglœum Clusiæ** Karst. et Har. Journ. Bot. 1890, p. 362. — Acervulis epi- raro hypophyllis, sparsis, immersis, solito orbicularibus, epidermide bullosa, dein laciniatim fissa v. circumscissa velatis, perithecioideis, atratis, circ. 0,2 mm. lat.; conidiis cylindraceis, hyalinis, obscure 3-5-septatis, loculis 1-guttulatis, 24-30 × 2-3,5. 6984

Hab. ad folia Clusiæ in Novo-Granata Amer. austr.

3. **Septoglœum acerinum** (Pass.) Sacc. Syll. III. p. 802. — Sec. Ell. Journ. Myc. species occurrit quoque in foliis Aceris dasycarpi. Columbia Mo. Amer. bor. et præbet conidia 18-22 × 3, verisimiliter serius 3-septata, ut certe illa in Thüm. M. U. n. 93.

4. **Septoglœum defolians** Harkness Fung. Pac., Coast. pag. 161. — Acervulis carneis, folia petiolosque occupantibus; conidiis 3-7-septatis, non vel vix curvis vel flexuosis, 68 × 4. 6985

Hab. in Quercu Kelloggii, Sierra Nevada Californiæ. — «An *Cylindrosporium?*»

5. **Septoglœum profusum** (E. et E.) Sacc., *Glœosporium profusum* 6986

E. et E. Journ. Myc. 1888, p. 104. — Maculis epiphyllis, flavis; acervulis sparsis, hypophyllis, magnis; conidiis albo-cirrose exeuntibus, cylindraceo-oblongis, granulosis, 3-septatis, 25-30 ≈ 6-7.

Hab. in foliis vivis Coryli americanæ, Vicksburg, Missouri Amer. bor. (Prof. S. M. Tracy).

6. **Septoglœum podophyllinum** (Ell. et Ev.) Sacc., *Glœosporium podophyllinum* Ell. et Ev. Journ. Myc. 1888, pag. 103. — Maculis late brunneis, 1 cm. lat., margine atro-viridule cinctis; acervulis amphigenis, albis, erumpentibus; conidiis ovatis, 12-15 ≈ 5-7 vel oblongo-cylindraceis, rectis curvulisve, hyalinis, 1-3-septatis, 20-35 ≈ 4-7. 6987

Hab. in foliis vivis Podophylli peltati, Concordia, Mo. Amer. bor. (C. H. Demetrio).

7. **Septoglœum? dimorphum** Sacc. in litt. ad Bresad. 1890, *Kriegeria Eriophori* Bres. Rev. Myc. 1891, p. 14, t. CXIII. — Acervulis lineatim juxta nervos parallelis, innatis, mox superficialibus, tremellinis, dilute succineis; conidiis initio stellatim fasciculatis, subsessilibus, oblongis vel clavatis, dein longius stipitatis, postremo cylindraceo-oblongis, parallele fasciculatis, 3-septatis, leniter constrictis, 45-50 ≈ 9-11, apice subrotundatis, stipite filiformi tortuoso fragili, 25-30 ≈ 1, sæpe curvo fultis, hyalinis, initio granulosis. 6988

Hab. in foliis vivis Eriophori angustifolii, in agro Nossen Saxoniæ (Krieger). — Nuclei visi omnino eructati, sed intra folia mycelium filiforme guttulatim copiosum adest prætereaque fungus alcohole tractatus evidentius endogenus apparet. Adsunt cum fungillo copiosa corpuscula minima globulosa, ovoidea v. oblonga, inæqualia, 1-3 μ. long., hyalina, saccharomycetoidea (e. germinatione fungi orta?).

8. **Septoglœum oxysporum** Bomm. Rouss. Sacc. Contr. Myc. Belg. IV, p. 294. — Acervulis innatis, seriatis, epidermide atrata, dein longitudinaliter rimosa tectis; conidiis anguste fusoideis, 30-33 ≈ 4, curvulis, 2-3-septatis, loculo infero tenuato non pedicellato, loculo supero sublineari, acuto, curvo, 9-12 μ. longo. 6989

Hab. in foliis graminum, Bois de la Cambre pr. Bruxelles Belgii.

9. **Septoglœum septorioides** Pass. in Erb. Critt. Ital. Ser. II, n. 1492. — Acervulis epiphyllis, tectis, subglobosis; conidiis bacillaribus, pluriseptatis, ad septa non vel varie constrictis, articulis interdum 1-2-guttulatis et quandoque secedentibus, hyalinis, 22,5-38 ≈ 5-7. 6990

Hab. ad frondes languidas, mox arescentes Pteridis aquilinæ prope Parma Ital. bor.

PROSTHEMIELLA Sacc. Syll. III, p. 803.

1. **Prosthemiella hysterioides** Ell. et Langl. Journ. Myc. 1890, p. 37. 6991
Acervulis sparsis, minutis, punctiformibus v. hysterioideis, perithecio spurio supra tectis, matricem rubefacientibus; conidiis ternatis, cylindraceis, nucleatis v. obsolete 5-6-septatis, 30-35 ≃ 1,5, hyalinis, basidio brevi tereti suffultis.

Hab. in ligno decorticato Salicis nigræ, pr. New Orleans La. Amer. bor. (Langlois). — *Prosth. formosa* Sacc. Syll. III, p. 803, videtur fungillus idem, quem ill. Tulasne, Carp. III, t. X, f. 7, ut st. conidicum *Nectriæ armeniacæ* illustravit.

PSAMMINA Rouss. et Sacc. Contr. Myc. Belg. IV, pag. 295 (Etym. *psammos* arena). — Acervuli subepidermici, tenues, submucosi. Conidia cylindracea, septata, hyalina, numerosa, basi persistenter cohærentia, radiatim divergentia capitulumque subhemisphæricum formantia. — Videretur pusio *Prosthemiellæ*.

1. **Psammina Bommeriæ** Rouss. et Sacc. l. c. — Acervulis sparsis, 6992
mucosis, subolivaceis, innatis; conidiis cylindraceis, hyalinis, 2-5-septatis, 20-30 μ. longis, basi numero 15-25 coalitis et capitulum subhemisphæricum discretum formantibus, demum emergentibus et in granula exigua pallida fugacia concretis.

Hab. in foliis Ammophilæ arenariæ, Knocke, Ostende Belgii et in Nederlandia.

Sect. 5. Scolecosporæ.

CYLINDROSPORIUM Ung. — Syll. III, p. 737.

I. *In Dicotyledoneis lignosis.*

1. **Cylindrosporium nanum** Cooke in Grevillea XIV, p. 130. — Hy- 6993
pophyllum; maculis angulatis, nervulis limitatis, canescentibus; acervulis minutis, albidis; conidiis cylindraceis, rectis, hyalinis, demique emergenti-superficialibus, 3-10 ≃ 1.

Hab. in foliis vivis Juglandis, New Zealand (Kirk). — Affine *C. microspermo*.

2. **Cylindrosporium microspilum** Sacc. et Wint. Misc. Myc. II, p. 16, 6994
n. 73. — Maculis epiphyllis, circularibus, perexiguis, albis, tenui-

ter atro-marginatis; acervulis amphigenis, innatis, punctiformibus, pallidis; conidiis bacillaribus, curvulis, utrinque rotundatis, 50-60 ≃ 4, spurie 4-6-septatis, hyalinis.

Hab. in foliis quercinis, Missouri Amer. bor. (Demetrio, communicavit cl. Winter).

3. **Cylindrosporium Dearnessii** Ell. et Ev. Proc. Acad. Phil. 1891, p. 83. — Maculis rubro-brunneis, orbicularibus, 2-3 mm. diam., margine subobscurioribus; acervulis paucis, amphigenis, centro macularum confertis, 100-120 μ. diam.; conidiis cylindraceis, granulosis, dein 3-pluriseptatis, sæpe semicirculariter incurvis, 35-40 ≃ 2,5-3, in massas subfloccosas erumpentibus. 6995

Hab. in foliis Carpini americanæ, London Canada Americæ borealis.

4. **Cylindrosporium? oculatum** Ell. et Ev. Journ. Myc. 1889, p. 155. — Maculis amphigenis, 3-5 mm. diam., griseo-albis, margine angusto elevato, obscuriore donatis; acervulis innatis, amphigenis, flavidis, demum nigricantibus, majusculis, 1/5 mm.; conidiis clavato-cylindraceis, curvis, 30-50 ≃ 3, demum 3-pluriseptatis. 6996

Hab. in foliss Populi moniliferæ, Put-in-Bay, Ohio Amer. bor. (Doct. J. J. Davis).

5. **Cylindrosporium saccharinum** Ell. et Ev. Journ. Myc. 1889, p. 155. — Maculis amphigenis, numerosis, sparsis, subangulosis, minutis, sæpius 1 mm. diam., viridi-nigris, demum obscurioribus; acervulis hypophyllis, minutis, confertis, supra nigris; conidiis graciliter cylindraceis, plus minus curvis, hyalinis, granulosis, demum obsolete 3-septatis, 30-40 ≃ 2,5-3, in massulas albas erumpentibus. 6997

Hab. in foliis vivis Aceris saccharini. Racine, Wis. Amer. bor. (Doct. J. J. Davis).

6. **Cylindrosporium Fraxini** (Ell. et Kell.) Ell. et Ev. in Journ. of Myc. 1885, p. 127, *Cercospora Fraxini* Ellis et Kell. in Journ. of Myc. 1885, p. 2. — Sparsum in pagina inferiore foliorum; maculis brunneis, parvis, nervis limitatis, demum confluentibus, 1/2-1 cm. latis, margine irregulari cinctis; basidiis dense coalitis, subhyalinis, brevibus, 16-26 μ. longis, laxis, basi vix inflatis; conidiis cylindraceis, subhyalinis vel vix luteolis, 3-4-septatis, granulosis nucleatisque, 70-100 ≃ 5-6, non vel vix curvulis, utrinque obtusis. 6998

Hab. in foliis Fraxini viridis, Kansas Amer. borealis (Kellerman).

7. **Cylindrosporium Viridis** Ell. et Ev. Journ. Myc. 1889, p. 155. — Maculis numerosis, in epiphyllo atro-purpureis, suborbicularibus, 6999

3-4 mm. diam., margine subindefinitis, centro parvo, 1 mm. vel minus diam., rubiginoso donatis, in hypophyllo sordide brunneis, 1-2 mm. lat.; acervulis 3-6 in quoque maculæ centro, subtus prominentibus, supra apertis; conidiis in massas niveas exeuntibus, cylindraceo-fusoideis, 30-35 × 2,5, guttatis, semiorbiculariter incurvis.

Hab. in foliis vivis Fraxini viridis, St. Martinsville, La. Amer. bor. (Langlois).

8. **Cylindrosporium minus** E. et K. Journ. Myc. 1887, p. 105. — Maculis subangulosis, 3-4 mm. lat., rubro-brunneis, centro pallidioribus; acervulis innatis, majusculis, plerumque in epiphyllo apertis, demum nigris; conidiis anguste cylindraceis, incurvis, guttatis, hyalinis, 35-40 × 2. 7000

Hab. in foliis vivis Fraxini viridis, Manhattan, Kansas Amer. bor. (Kellerman). — «An diversum a præcedente?»

9. **Cylindrosporium Ceanothi** Ell. et Ev. Proc. Acad. Phil. 1891, p. 84. — Maculis minutis, brunneo-atris, dense sparsis, plus minus confluentibus, infra pallidioribus; acervulis amphigenis ratione amplis, conidiis vermicularibus, curvulis, 1-3-septatis, 35-45 × 4, in cirrum compactiusculum carneum exeuntibus. 7001

Hab. in foliis Ceanothi thyrsiflori in mont. Santa Cruz pr. Fulton Cal. Amer. bor. (Underwood).

10. **Cylindrosporium Rubi** Ell. et Morg. in Journ. of Myc. 1885. — Maculis amphigenis, brunneo-griseis, sursum definitis, 2-3 mm. d., subinde confluentibus, tomento foliorum absconditis; acervulis epiphyllis, punctiformibus, subcutaneis, demum suberumpentibus, pallidis; conidiis filiformibus, una extremitate acutis, rectiusculis vel vix curvatis, 3-6- sæpius 3-septatis, hyalinis, 40-55 × 2,5; basidiis minutis. 7002

Hab. in foliis vivis Rubi strigosi culti in Amer. bor. (Doct. J. Brown).

11. **Cylindrosporium Pruni-Cerasi** C. Mass. Contr. Mic. Ver. p. 104, t. IV, f. 24. — Acervulis minutis, subpunctiformibus, hypophyllis, epidermide subtumida velatis, dein erumpentibus, in maculis amphigenis, exaridis, fuscescentibus, haud marginatis dense effusis; conidiis (paraphysibus? 3 μ. crassis intermixtis) exilissimis, filiformibus, hyalinis, continuis, magnis minusve subcurvulis (vix subflexuosis), 18-25 × 1. 7003

Hab. in foliis languescentibus Prunis Cerasi, Calavena pr. Tregnago, Verona. — Ad *Cylindrosporium Padi* accedit sed dimensio conidiorum diversa.

12. **Cylindrosporium cercosporoides** E. et E. Journ. Myc. 1887, p. 22. 7004
— Maculis amphigenis, suborbicularibus, 1 cm. lat., brunneis, subindefinitis; acervulis hypophyllis, punctiformibus, minutis; conidiis erumpentibus, filiformibus, multiguttatis, 130-170 = 3-3,5 hyalinis; basidiis obovatis?

Hab. in foliis vivis Liriodendri Tulipiferæ, Washington Amer. bor. (Prof. F. L. Scribner).

13. **Cylindrosporium aureum** Speg. Guar, I, p. 158. — Maculis epi- 7005
phyllis, indeterminatis, parum manifestis, fuscescentibus, 3-15 mm. diam., irregulariter effusis; acervulis laxe in maculis aggregatis, parvulis, 80-90 μ. diam., lenticularibus, epidermide infuscata centroque ostiolato-perforata tectis; conidiis in cirros aureos protrudentibus, subfusoideo-linearibus, hamatis v. falcatis, utrinque acute rotundatis, 12-15 = 1, continuis, hyalinis.

Hab. ad folia viva Tecomæ sp. cujusdam in silva pr. Guarapi Brasiliæ.

14. **Cylindrosporium septorioides** Speg. F. Puigg. n. 451. — Macu- 7006
lis orbicularibus, 1-2 mm. diam. fulvescentibus, determinatis, areola latiuscula sanguineo-purpurea cinctis, sparsis; acervulis amphigenis in centro macularum 3-10-aggregatis primo tectis dein erumpentibus, lenticularibus 60-80 μ. diam. fuscidulis; conidiis filiformibus superne sæpe subattenuatis utrinque acutiusculis 30-40 × 2 rectis v. subcurvulis, 3-5-septatis, ad septa non constrictis, hyalinis.

Hab. ad folia subcoriacea Hireæ speciei cujusdam in nemorosis prope Apiahy Brasiliæ.

II. *In Dicotyledoneis herbaceis.*

15. **Cylindrosporium Clematidis** E. et E. Journ. Myc. 1887, p. 22. 7007
— Maculis amphigenis, rubido-brunneis, rotundis vel angulosis, 1-3 mm. diam.; acervulis paucis, epiphyllis, immersis, sparsis; conidiis fusoideo-linearibus, 75-80 = 2,5-3, guttatis, dein multiseptatis, subcurvulis.

Hab. in foliis vivis Clematidis virginianæ, Faulkland, Delaware Amer. bor. (A. Commons).

16. **Cylindrosporium Brassicæ** Fautr. et Roum. Rev. Myc. 1891, 7008
p. 81. — Maculis numerosis, irregularibus, magnis, sordide albis; conidiis hyalinis, eguttatis, rectis, curvis, 80-120 = 3-4, dein 1-3-septatis.

Hab. in foliis Brassicæ Napobrassicæ, Noidan, Côte-d'Or Galliæ (F. Fautrey).

17. **Cylindrosporium Capsellæ** E. et E. Journ. Myc. 1887, p. 130. — Maculis amphigenis, rotundis, 1-4 mm. lat., supra subdepressis, albidis; conidiis in epiphyllo erumpentibus, cylindraceis, granulosis, dein tenuissime 3-septatis, septo medio magis distincto, 35–45 ≃ 3; basidiis elongatis, continuis. 7009

Hab. in foliis vivis Capsellæ Bursæ-Pastoris, Columbia, Montana Amer. bor. (B. T. Galloway).

18. **Cylindrosporium Saponariæ** Roum. in Rev. Myc. 1885, pag. 27. — Maculis hypophyllis, magnis, orbicularibus, sæpe confluentibus, æruginosis, griseolis; basidiis rectis, brevibus, hyalinis, 40-45 ≃ 3, 1-2-septatis; conidiis cylindraceis, simplicibus, hyalinis, 10-40 ≃ 3-5. 7010

Hab. in foliis vivis Saponariæ officinalis, Fontainebleau Galliæ. — «An *Glœosporium*?»

19. **Cylindrosporium circinans** Wint. in Journ. of Myc. 1885. — Acervulis epiphyllis, magnis, plerumque circinatim vel concentrice stipatis, rarius inordinate gregariis, rotundato-angulatis v. irregularibus, sæpe confluentibus, orbes vel maculas, usque 15 mm. latas, fusco vel sordide-griseas formantibus, margine elevato, obscuriori, varie flexuoso circumdatis, applanatis; conidiis cylindrico-fusiformibus, utrinque acutiusculis, parce septatis, hyalinis, sæpe flexuosis, 20-30 ≃ 1,5. 7011

Hab. ad folia viva Sanguinariæ canadensis, Perryville Missouri Amer. bor. (G. H. Demetrio).

20. **Cylindrosporium Geranii** E. et E. Journ. Mycol. 1888, p. 52. — Maculis amphigenis, albidis, rubenti-marginatis, 3-4 cm. lat.; acervulis minutis, copiosis, pallidis, utraque pagina erumpentibus; conidiis tenuibus, 30-50 ≃ 1,5-2, continuis, hyalinis, ex hyphis seu basidiis brevibus subconicis, 6-8 μ. long. oriundis. 7012

Hab. in foliis vivis Geranii caroliniani, St. Martinsville La. Amer. bor. (Langlois). — Conidia demum exsiliunt et matricem albo-pruinosam reddunt.

21. **Cylindrosporium Oxalidis** Trail Scot. Nat. 1887, p. 89, Grev. XV, p. 110. — Maculis brunneis, siccis, rotundis, pallide marginatis, 1-3 mm. diam., acervulis sparsis, subcutaneis; conidiis filiformibus, utrinque leniter tenuatis, curvis, 20-25 ≃ 1, hyalinis per porum latum ejectis. 7013

Hab. in foliis Oxalidis Acetosellæ pr. Aberdeen Scotiæ.

22. **Cylindrosporium Heraclei** E. et E. Journ. Mycol. 1888, p. 52. — Maculis pallidis dein brunneis, subangulosis, venulis limitatis confluentibusque et areas latiores brunneas formantibus; acervulis in- 7014

natis, majusculis, sæpius erumpentibus; conidiis fasciculatis, fusoideo-cylindricis, granuloso-nucleatis, subinde spurie 1-septatis, utrinque tenuatis et valde curvatis, 50-60 ≃ 3-4, dein in massam pallidam ejectis.

Hab. in foliis Heraclei lanati, sociâ *Phyllachorâ*, Ogden Utah Amer. bor. (Tracy).

23. **Cylindrosporium Pimpinellæ** C. Massal. Bot. Centr. 1890, n. 26, p. 385. — Acervulis subpunctiformibus, convexo-applanatis, amphigenis, in maculis minutis, exaridis, 1-6 circ. insidentibus; conidiis subcirrose expulsis, hyalinis, cylindraceo-fusiformibus, continuis, multiguttatis, magis minusve arcuatis subsemicircularibusve, 30-44 ≃ 3-5. 7015

Hab. in foliis languidis Pimpinellæ nigræ, sociis stromatibus sterilibus *Phyllachoræ* sp. prope Tregnago in agro veronensi Italiæ borealis. — « An varietas præcedentis? »

24. **Cylindrosporium septatum** Romell in litt. — Maculis distinctius epiphyllis minutis, angulosis, internerviis, fuscescentibus, subinde confluendo amplis; acervulis exiguis, innatis vix erumpentibus, fuscis; conidiis filiformibus vel leniter clavulatis, 5-7-septatis, rectis curvulisve, hyalinis, 60-100 ≃ 2,5-3; basidiis brevibus, 12-27 ≃ 1-3 vel a conidiis parum diversis. 7016

Hab. in foliis vivis vel languidis Laserpitii latifolii pr. Stockholm Sueciæ (L. Romell).

25. **Cylindrosporium Cicutæ** Ell. et Ev. Proc. Acad. Phil. 1891, p. 83. — Maculis sordide brunneis, amphigenis, 1-2 mm., suborbicularibus, venulis partim limitatis; acervulis minutis, innatis, 70-80 μ. diam., vix perspicuis; conidiis 20-30 × 1,5, raro 35 μ. long., guttatis, subrectis, uno apice crassioribus, viridescenti-hyalinis in cirros albos erumpentibus. 7017

Hab. in foliis vivis Cicutæ maculatæ, London, Canada Americæ bor. (J. Dearness).

26. **Cylindrosporium Eryngii** E. et K. Journ. Myc. 1887, p. 104. — Acervulis minutis, innatis, amphigenis, seriatis; conidiis cylindraceis, subcurvis, multiguttatis, dein multiseptatis, 70-80 ≃ 3-4; basidiis brevibus non evolutis. 7018

Hab. in foliis vivis Eryngii yuccifolii, Mound City, Kansas Amer. bor. (W. A. Kellerman). — *C. veratrino* affine.

27. **Cylindrosporium Ziziæ** Ell. et Ev. Proc. Acad. Phil. 1891, p. 83. — Maculis amphigenis, subangulosis, sæpius subelongatis, parvis, 2-3 mm. long., 1-1,5 mm. lat., nigricantibus, venulis limitatis; 7019

acervulis numerosis, confertis, minutis, nigris; conidiis cylindraceo-vermicularibus, 40–60 × 5–6, guttatis, dein 3–6-septatis, subcurvis, in cirros albos erumpentibus.

Hab. in foliis vivis Ziziæ cordatæ, Racine, Wis. Americæ borealis.

28. **Cylindrosporium Triostei** Kell. et Sw. Journ. Mycol. 1889, p. 73. 7020
— Maculis indefinitis, amphigenis, flavo-viridibus, primo 0,5–1 mm. diam., demum interdum confluentibus et 2–5 mm. diam.; acervulis amphigenis, sparsis, circ. 150–300 μ. diam., dilute flavidis; basidiis pallidis copiosis, irregularibus, parum ramosis, 15–30 × 4–5; conidiis copiosis, subhyalinis, elongato-fusoideis, sæpius eximie incurvatis, utrinque obtusis vel subinde acutis, 3–4-septatis, ad septa non constrictis, 35–67 × 4–6.

Hab. in foliis Triostei perfoliati, Manhattan Amer. bor.

29. **Cylindrosporium Apocyni** E. et E. Journ. of Myc. 1887, p. 22. — 7021
Maculis amphigenis, atro-brunneis, subindefinitis, fere irregularibus, 2–4 mm. diam., subconcentrice zonatis, subconfluentibus; acervulis minutis, numerosis, sæpius epiphyllis; conidiis 50–80 × 4–5, vermiculari-cylindraceis, plus minus inconspicue 3–5-septatis.

Hab. in foliis Apocyni androsæmifolii, Faulkland, Del. Amer. bor. (A. Commons).

30. **Cylindrosporium Humuli** E. et E. Journ. of Mycol. 1887, p. 21. 7022
— Maculis amphigenis, sed plerumque hypophyllis, minutis, angulosis, venulis limitatis, ferrugineo-brunneis; acervulis minutis, amphigenis, nigris; conidiis subcylindricis, hyalinis, granulosis et nucleatis, 40–50 × 3, in cirros albidos crassos mox diffusos ejectis.

Hab. in foliis vivis Humuli Lupuli, Faulkland Del. Amer. bor. (A. Commons).

III. *In Monocotyledoneis.*

31. **Cylindrosporium Iridis** Ell. et Halst. Journ. Myc. 1890, p. 34. — 7023
Acervulis minutissimis, numerosis, subcutaneis, nigricantibus, parallele longe seriatis; conidiis acicularibus, continuis, hyalinis, 15–22 × 1, ejectis matricem albo-pruinosam reddentibus; hyphis brevibus, 8–10 × 2, subhyalinis, vulgo sursum denticulatis.

Hab. in foliis vivis Iridis, Jowa City Amer. bor. (H. S. Hitchcock).

32. **Cylindrosporium guttatum** Wint. Grev. XV, p. 92. — Acervulis 7024
paucis in foliorum pagina inferiori gregariis, maculis rotundato-irregularibus, fuscidulis, indeterminatis, minutis insidentibus, in-

terdum autem sine macula sparsis, sub epidermide parum inflata, demum vertice perforata nidulantibus, rotundatis, depresse et late subconoideis; conidiis filiformibus, tenuissimis, hyalinis, flexuosis, 53-70 ≈ 2, in massam ceraceam pallidam majusculam (guttiformem) expulsis.

Hab. in foliis languidis Hypoxidis, Sao Francisco Brasiliæ (Ule).

33. **Cylindrosporium Angustifoliæ** Ell. et Kell. in Journ. of Myc. 1886, pag. 81. — Maculis amphigenis, ovoideis, $^1/_2$-$^3/_4$ ≈ $^1/_4$ cm., brunneis, margine obscuro cinctis; acervulis erumpentibus, olivaceis, primo epidermide tectis; conidiis ab iis *C. Tradescantiæ* vix distinguendis; basidiis simplicibus, brevibus, 2-3-cellulis concatenatis efformatis. 7025

Hab in foliis vivis Yuccæ angustifoliæ, Manhattan, Kansas Amer. bor. (Kellerman).

34. **Cylindrosporium Tradescantiæ** Ell. et Kell. in Journ. of Myc. 1886, pag. 81. — Conidiis erumpentibus, in capitula carnea coalitis, cylindraceo-vermicularibus, una extremitate acutioribus, 65-80 ≈ 4-5, 4-6-septatis, primo granulosis vel nucleatis; basidiis indistinctis vel obsoletis. 7026

Hab. in foliis vivis Tradescantiæ virginicæ, Manhattan, Kansas Amer. bor. (Kellerman).

35. **Cylindrosporium inconspicuum** Wint. in Magn. Verz. Graub. p. 69. — Acervulis discretis nullis; maculis irregularibus, usque 20 mm. long., sæpe confluentibus, totum folium occupantibus, pallide fuscis, exaridis, demum centro pallidioribus, amphigenis; conidiis filiformi-cylindraceis, utrinque attenuatis, 3-5-septatis, interdum curvatis, hyalinis, 60-100 ≈ 3,5. 7027

Hab. in foliis Lilii Martagonis, Graubünden Helvetiæ.

36. **Cylindrosporium aquaticum** (F. et R.) Sacc. *Scoleciasis aquatica* Fautr. et Roum. Rev. mycol. 1889, p. 199. — Acervulis mediis epidermide indurata atrataque limitatis; hyphis subinde longissimis v. nullis; conidiis aciculari-vermiformibus, 120-160 ≈ 4, utrinque acuminatis. varie curvatis, nucleatis flavidis. 7028

Hab. in foliis siccis Sparganii et calamis Scirpi lacustris in Gallia. — Cum *Sept. lacustri* comparanda species, ex ipsis auctoribus. Forma **Junci** Fautr. Rev. Myc. 1890, p. 168: conidiis 120 ≈ 3,5. In Junco compresso, Cote-d'Or Galliæ.

37. **Cylindrosporium Olyræ** Speg. Fl. Guar. nonn. n. 153. — Epiphyllum, sparsum, minutissimum, erumpens, fusco-flavescens, 60-90 μ. 7029

diam., zonula sordide aurantia cinctum; conidiis subcylindraceis, continuis vel parce septatis, hyalinis, subrectis, utrinque obtusulis, 30–40 ≃ 1,5-2.

Hab. in foliis vivis languidisve Olyræ speciei in dumetis pr. Guarapi Brasiliæ.

CRYPTOSPORIUM Kunze. — Syll. III, p. 741.

1. **Cryptosporium Hippocastani** Cooke in Grevillea XIII, p. 4. — 7030
Stromate corticali, tecto, dein cortice erumpente, longitudinaliter confluente, pallido; conidiis oblongo-fusoideis, continuis, enucleatis, obtusiusculis, 18-20 ≃ 5; basidiis simplicibus vel furcatis, conidio duplo longioribus.

Hab. in ramulis Æsculi Hippocastani, Kew Britanniæ. — Affine *C. coronato.*

2. **Cryptosporium lunulatum** Bäuml. Crypt. Presb. p. 26. — Acervu- 7031
lis initio subcutaneis, aggregatis vel seriatis, pallidis, dein epidermide lacerata erumpentibus; conidiis fusiformibus, utrinque attenuatis, lunatis, guttulatis, hyalinis, 30-40 ≃ 5-6, basidiis brevissimis suffultis.

Hab. in ramulis nondum emortuis Sarothamni scoparii, Pressburg Hungariæ.

3. **Cryptosporium nigrum** Bon. — Syll. III, p. 743. — Sec. C. Mass. Contr. Mic. Ver. pag. 104, conidia subfusoideo-cylindracea, recta v. subfalcato-allantoidea, utrinque obtusa, hyalina, 8–14 ≃ 1,5–2,5; acervuli punctiformes, hypophylli, innato-erumpentes, cuticula atrata tecti. Occurrit quoque in foliis Juglandis prope Cogolo agri veron.

4. **Cryptosporium Androsaces** Rostr. Bidr. Ascom. Dovr. p. 13. — Pe- 7032
ritheciis corticolis, sparsis, discoideis, rufis; conidiis fusoideis, continuis, hyalinis, 23–27 ≃ 3.

Hab. in caulibus Androsaces septentrionalis, Dovre Norvegiæ.

5. **Cryptosporium nubilosum** Ell. et Ev. Journ. Myc. 1889, p. 156. — 7033
Acervulis innatis, vix erumpentibus, nigris, 80-110 diam., seriatim gregariis; conidiis lunato-fusoideis, 15–20 ≃ 8,5, hyalinis vix guttatis.

Hab. in foliis emortuis vel semiemortuis Caricis (pensilvanicæ?), Newfield, N. J. et Montana Amer. bor.

LIBERTELLA Desm. — Syll. III, p. 745.

1. **Libertella Gleditschiæ** Winter in Journ. of Myc. 1885. — Acervulis difformibus, immersis, intus pallidis, linea atra circumdatis; conidiis in cirros plerumque filiformes, contortos, aurantiacos erumpentibus, filiformi-fusoideis, valde curvatis, tenuissimis, hyalinis, 17-25 × 1. 7034

Hab. ad corticem putridum Gleditschiæ Triacanthi, Missouri Amer. bor.

NÆMOSPORA Pers. — Syll. III, p. 746.

1. **Næmospora Tiliæ** G. Delacroix Bull. Soc. Myc. Fr. 1890, p. 184, tab. XX, fig. VII. — Acervulis undulatis, peridermio tectis, fuscis, nucleo albido; conidiis hyalinis, cylindraceis, utrinque obtusis, rectis, 6-8 × 1, in cirrum longissimum, crassum luteo-aurantiacum, expulsis; basidiis acicularibus, 20-25 × 0,7, ramosis fasciculatisque. 7035

Hab. in cortice Tiliæ silvestris, Montreuil-sous-Bois, prope Parisios Galliæ.

2. **Næmospora microsperma** Ell. et Ev. Journ. Myc. 1889, p. 156. — Nucleis per 1-2 cm. inter corticis laminas confluentibus, atro-purpureis; conidiis ovatis v. ellipsoideis, minutis, 2-2,5 × 1,5-2, in massas v. cirros rubentes copiose exeuntibus; basidiis 12-15 × 1,5. 7036

Hab. in cortice Aceris saccharini, London, Canada Amer. bor. (J. Dearness).

3. **Næmospora gummosa** Passer. Diagn. F. N. IV, n. 130. — Nucleis hypodermicis gregariis fuscis, per epidermidem sublevatam et longitudinaliter fissam globulum ceraceo-gummosum eructantibus; conidiis minimis bacteriformibus hyalinis, 2-2,5 × 0,8; basidiis tenuissimis, simplicibus vel parce ramulosis interdum usque ad 60 μ. long 7037

Hab. in ramis siccis Paulowniæ imperialis in orto botanico Parma.

4. **Næmospora Fici** (Brond.) Sacc. *Libertella* Brond. Rec. Pl. Crypt. Agen. p. 31, t. VIII, f. 3-5. — Acervulis subepidermicis; conidiis fusoideis, subincurvis, utrinque obtusulis hyalinis, continuis, in cirros aurantios erumpentibus. 7038

Hab. in ramis Fici Caricæ, Agen Galliæ.

MORINIA Berl. et Bres. Micr. Trid. p. 82 (1889). (Etym. a cl. prof. F. Morini), *Pestalozziana* Passer. Diagn. F. N. V, n. 48 (ut subgen.). — Acervuli sparsi, erumpentes, pulvinati, atri. Conidia oblonga pluriseptato-muriformia, colorata, loculis extimis subhyalinis, apice pluriciliata. Basidia filiformia, hyalina. — Est *Pestalozzia* conidiis murali-divisis.

1. **Morinia pestalozzioides** Berl. et Bres. Micr. Trid. pag. 82, t. VI, 7039
f. 10, *Pestalozzia* (Pestalozziana) *Artemisiæ* Pass. loc. cit. — Acervulis sparsis, epidermide tectis, dein erumpentibus, minutis, atris, pulvinatis, oblongo-rotundatis, longitudinaliter dehiscentibus; conidiis oblongis, obtusiusculis, transverse 5-septatis, loculis mediis 1-3 septulo longitudinali divisis, 22-24 ≈ 8-10, apice setis 3, tenuibus, divergentibus, 14-20 ≈ 1 ornatis, melleo-brunneis, loculis extimis subhyalinis, ceteris valde minoribus; basidiis brevibus, hyalinis (septulatis sec. cl. Pass.).

Hab. in caulibus emortuis Artemisiæ camphoratæ prope Trento et Vigheffio pr. Parma.

STEGANOSPORIUM Corda. — Syll. III, p. 803.

1. **Steganosporium cenangioides** Ell. et Rothr. in Journ. of Myc. 1885. 7040
— Stromatibus erumpentibus, tuberculiformibus, excavatis et sursum discoideis, margine demum expanso et tum Pezizulam atram simulantibus; conidiis latis, oblongo-fusoideis vel ovato-oblongis, endochromate 5-8 partito, muriformi, 35-40 ≈ 10-15, pedicellatis.

Hab. in ramulis emortuis Abietis balsameæ, West Chester Amer. bor. (Rothroch).

2. **Steganosporium Castaneæ** Lib. in Brunaud Contrib. à la Flore 7041
Myc. de l'Ouest pag. 21. — Acervulis magnis, epidermide velatis, dein erumpentibus, brunneo-olivaceis; conidiis oblongo-ellipsoideis, rectis vel curvatis, sæpius 6-septatis, brunneis, 50-58 ≈ 14.

Hab. in ramis emortuis Castaneæ in Gallia, Germania et in Belgio. — Est st. conidicus *Melanconidis modoniæ*. Cfr. Tul. Carp. II, pag. 141 c. icon.

3. **Steganosporium? variabile** Bon. in Hedw. 1876, p. 83. — Acer- 7042
vulis parum elevatis; sacculis «(?)» tenuissimis, lentiformibus, ostiolo simplici pertusis; strato prolifero mucoso-griseo; basidiis clavatis et stipitatis («stipatis?»); conidiis nigris, cylindraceis, utrinque rotundatis, triseptatis, muco obvolutis.

Hab. in fructibus putrescentibus in Guestphalia.

PHRAGMOTRICHUM K. et S. — Syll. III, p. 806.

1. **Phragmotrichum gigasporum** Schulz. Bot. Centr. 1883, XV, p. 3. 7043
— Peritheciis (spuriis?) mox liberis, infra globosis, superne in collum breve abeuntibus, 0,5–0,57 mm. lat., 0,6 mm. alt., nigris, corneis, 50 μ. cr., demum dehiscentibus et dilabentibus; conidiis concatenatis, inæquali-fusoideis, plerumque ventricosis, utrinque plus minus acuminatis, 34–80 × 19–27, primitus circinato-pilosis, demum glabris, obscurissimis.

Hab. in cortice vetusto Populi pyramidalis, Djakovar Slavoniæ. — Ob septa (ex opacitate conidiorum?) non visa et ob præsentiam perithecii species perdubia.

2. **Phragmotrichum acerinum** Fr. — Syll. III, p. 807. — Conidia fuliginea, 24 × 7. Occurrit quoque in rimis ramorum Aceris campestris, Trento (Bresadola).

HYPHOMYCETEÆ Martius em. Sacc. Syll. IV, pag. 1*).

Fam. 1. **Mucedineæ** Link em.

Sect. 1. Amerosporæ Sacc.

Subsect. 1. **Micronemeæ** Sacc.

Trib. 1. Chromosporieæ Sacc.

CHROMOSPORIUM Corda — Syll. IV, p. 6.

1. **Chromosporium strobilinum** Karst. Symb. XV, p. 109. — Effusum, 7044
ceraceo-molle, sordide ochraceum v. fulvescens; conidiis sphæroideis, raro inæqualibus vel ellipsoideis, continuis, hyalinis, intus

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*) Auctores nuperiores quidam sporas Hyphomycetum *gonidia* (nec *conidia*) nuncupant; sed revera inepte, nam gonidia sunt notissimæ cellulæ chlorophyllosæ lichenum, a conidiis fungorum morphosi et functione diversissimæ. Nescio quo errore, in nomenclatura organorum reproductionis mycetum, quam exposui in *Recommand. pour les Phytogr.* etc., art. 9, ad Hyphomyceteas legitur *sporæ* pro *conidia* aliaque leviora errata irrepserunt. Liceat hic iterare nomenclaturam correctam:

Hymenomyceteæ: Pileus, quacumque forma indutus; basidia; sterigmata; sporæ; cystidia.
Gasteromyceteæ et Myxomyceteæ: Peridium; gleba; capillitium; flocci; sporæ.
Uredineæ: Sorus; uredosporæ; teleutosporæ; mesosporæ; pseudoperidium; æcidiosporæ; paraphyses.
Ustilagineæ: Sorus; sporæ.
Phycomyceteæ: Oogonia; oosporæ; antheridia; zygosporæ; azygosporæ: zoosporangia; zoosporæ; sporangia; sporæ.
Pyrenomyceteæ et Phymatosphæriaceæ: Stroma; perithecium; loculus; nucleus; ascus; sporidia; paraphyses.
Discomyceteæ et Tuberoideæ: Ascoma; gleba; ascus; sporidia; paraphyses.
Schizomyceteæ: Filamenta; baculi; cocci; endosporæ; arthrosporæ.
Sphæropsideæ: Perithecium; nucleus: basidia; sporulæ.
Melanconieæ: Acervulus; basidia; conidia.
Hyphomyceteæ: Cæspitulus; sporodochium; hyphæ; conidia.

Obs. Ubi spora quæcumque germinet, *promycelium* exoritur, quod *sporidiola* (nec *sporidia*) subinde emittit.

granulosis et fulvescentibus, levibus, 15-23 μ. diam. v. 30 ≃ 15; hyphis non visis.

Hab. in squamis strobilorum Abietis excelsæ vetustis in regione Aboënsi, Merimasku Fenniæ. — *Chr.* (*Diaphanio?*) *serpenti* affine?

2. **Chromosporium pactolinum** (C. et H.) Cooke Grev. XVI, pag. 71, *Corticium* C. et H. — Syll. VI, p. 633. — *Chrom. isabellinum* Ell. et Sacc. in N A. Fungi n. 1391. — Conidia e flavo isabellina, 7-8 μ. diam. v. 10 ≃ 6.

3. **Chromosporium rubiginosum** (Carm.) C. et M. Grev. XVI, p. 78, 7045
Gymnosporium Carm. MSS. — Epiphyllum, rubiginosum, effusum, pulverulentum; conidiis profusis, ovoideis, continuis, pallide fusco-rubiginosis, 10 ≃ 7-8.

Hab. in foliis dejectis fagineis, Appin Britanniæ.

4. **Chromosporium albo-roseum** Karst. Rev. Myc. 1890. — Cæspitulis 7046
exiguis, subinde confluentibus, roseo-albis; conidiis ellipsoideis vel angulato-sphæroideis, hyalinis (sub lente), 1 μ. diam. vel 2 ≃ 1,5; hyphis vix ullis.

Hab. supra Sporotrichum obducens Link, ad Mustiala Fenniæ.

5. **Chromosporium agaricinum** Karst. in Hedw. 1888, p. 105 et Symb. 7047
Myc. Fenn. XXII, p. 148. — Effusum, pulveraceum, saturate luteum, subinde virescens, luteum; conidiis elongatis, rectis, 2 ≃ 0,5; hyphis nullis visis.

Hab. supra lamellas semisiccas Lentini domestici, Mustiala Fenniæ.

6. **Chromosporium stercorarium** Karst. Symb. Myc. XXVII, p. 36. — 7048
Effusum, tenuissimum, submembranaceum, albidum; conidiis copiosissimis, sphæroideis, hyalinis, 0,7-1 μ. diam.; hyphis prorsus nullis.

Hab. supra stercus bovinum caulesve putridos in regione Aboënsi, Merimasku Fenniæ.

COCCOSPORA Wallr. — Syll. IV, p. 9.

1. **Coccospora casei** Karst. Rev. Myc. 1890. — Cæspitulis laxis, or- 7049
bicularibus, nonnunquam confluentibus, cinnabarinis; conidiis exacte sphæroideis, levissimis, fulvo-aurantiacis, membrana hyalina, 9-12 μ. diam.; hyphis parcis, ramosis, usque ad 70 μ. longis, circ. 3 μ. crass.

Hab. in caseo vetusto in Mustiala Fenniæ (Gripenberg).

2. **Coccospora? parasitica** Bomm. Rouss. Sacc, Contr. Myc. Belg. IV, 7050

pag. 93. — Granuliformis, ceracea, albo-diaphana, dein sordide alutacea, dense gregaria; conidiis globosis, exosporio crassissimo, levi, 15-21 μ. diam., hyalinis, primo nubilosis.

Hab. in stromatibus Pleomassariæ sipariæ et Eutypellæ stellulatæ, Groenendael Belgii. — *Protomyces pityophilus* Karst. et *Pr. muscorum* Karst. — Syll. VII, 1, p. 321-2 — monente ipso auct. Fragm. Fenn. XIX, p. 6, sunt *Coccosporæ* species.

SOROSPORELLA Sorok. in Giard Nouv. par. p. 80 c. ic. (Etym. *Sorosporium*). — Sori atro-rubri. Sporæ (conidia?) globosæ, hyalinæ, leves v. rarissime tuberculo aliquo præditæ.

1. **Sorosporella Agrotidis** Sorok. loc. cit. — Mycelio ramuloso, vix evoluto; soris atro-rubris, granulosis; sporis (conidiis?) globosis, hyalinis, 4-7 μ. diam., levibus v. rarissime tuberculo minuto præditis, 1-pluriguttulatis. 7051

Hab. ad bruchos Agrotidis segetum, Rossia septentr.

Trib. 2. Oosporeæ Sacc.

HELICOCEPHALUM Thaxt. Bot. Gaz. 1891, pag. 201 (Etym. *helix* et *cephalos* capitulum). — Hyphæ hyalinæ, steriles, tenues, repentes, subseptatæ, fertiles erectæ simplices, continuæ, multo crassiores, summo apice bis ter spiraliter convolutæ. Pars spiralis capitulum formans et mox in articulos seu conidia ellipsoideo-truncata, brunnea secedens. — Genus nulli alii affine.

1. **Helicocephalum sarcophilum** Thaxt. l. c. t. XIX, f. 1-5. — Sparsum; hyphis sterilibus 2 μ. cr., fertilibus cylindraceis, sursum tenuatis, 1 mm. alt., 20-25 μ. cr., sursum 8-10 μ. cr.; conidiis in quoque capitulo seu spira subviginti, elliptico-cylindraceis, utrinque obtuse rotundatis, maturitate brunneis, 55-65 ≃ 30-35, demum secedentibus et in capitulum subglobosum viscosum cohærentibus. 7052

Hab. in cadaveribus in laboratorio, Connecticut Amer. bor.

OOSPORA Wallr. em. Sacc. Syll. IV, p. 11.

1. **Oospora umbilicata** (Riv.) Sacc., *Torula umbilicata* Riv. Parass. p. 439, f. 128. — Cæspitulis albidis; mycelio repente; hyphis fertilibus erectis, conidiorum catenulas apice gerentibus; conidiis ovoideis, umbilicatis, hyalinis, 8-9 ≃ 4. 7053

Hab. in fœno putri, Pisa Ital. bor.

2. **Oospora penicillioides** (Riv.) Sacc., *Oidium penicillioides* Riv. 7054

Par. p. 448, fig. 137. — Mycelio repente, sordide albido, septato; hyphis fertilibus erectis, ramosis, sursum attenuatis, apice catenulas conidiorum gerentibus; conidiis subovoideis, superne acuminatis, basi truncatis, episporio crasso, obscuriore donatis, granulosis, 7 ≃ 4.

Hab. in fœno udo, sanguine anthrace seu «carbonchio» affecto inquinato, Pisa Italiæ borealis.

3. **Oospora inæqualis** (Riv.) Sacc., *Oidium inæquale* Riv. Par. p. 447, f. 136. — Alba; mycelio repente, continuo v. demum septato; hyphis fertilibus, erectis, septatis, ad septa constrictis, in catenulas conidiorum desinentibus; conidiis sphæroideis v. ovoideis, episporio crasso præditis, intus granulosis, 8-12 ≃ 8-10, hyalinis. 7055

Hab. in fœno, Pisa Ital. bor. (Pavesi).

4. **Oospora ægeritoides** Karst. Rev. Myc. 1888. — Cæspitulis gregariis, erumpentibus, vulgo rotundatis, subpulvinatis, laxis, farinosis; hyphis fasciculatis, erectis, simplicibus, continuis, circiter 26 ≃ 4–5, in catenulas breves, rarissime ramosas abeuntibus; conidiis mox secedentibus, ovoideis vel sphæroideis, albis, 6–7 ≃ 5–6 vel 5–6 μ. diam. 7056

Hab. in caulibus putrescentibus Chenopodii albi ad Mustiala Fenniæ.

5. **Oospora Cookei** Sacc. *O. inæqualis* Cooke et Mass. Grevillea XVI, pag. 10, nec Rev. — Tenuissima, effusa, glauco-pruinosa, grisella; conidiis inæqualibus e globoso ellipsoideis, 5–10 ≃ 5, in catenulas curvas, breves, simplices v. ramosas junctis. 7057

Hab. in culmis Bambusæ, Kew, London Britanniæ.

6. **Oospora Clavariarum** Karst. Symb. Myc. Fenn. XXV, p. 25. — Cæspitulis effusis, ambientibus, mucedineis, albidis; catenulis brevibus, simplicibus, ex hyphis brevissimis, 40–50 μ. longis, oriundis; conidiis (saltem ultimis) sphæroideis, episporio crasso, verruculoso, hyalinis, 18-36 μ. diam. 7058

Hab. supra Clavariam putrescentem pr. Mustiala Fenniæ.

7. **Oospora Cucumeris** Peck 41 Rep. p. 80. — Acervulis laxis, subconfluentibus, albidis v. griseolis, velutinis; hyphis erectis vel divergentibus, concatenatis, ellipsoideis vel oblongis, hyalinis, 10–20 ≃ 6-7,5. 7059

Hab. in fructibus Cucumeris Melonis, Menands Amer. bor.

8. **Oospora nectricola** Rich. Cat. Champ. Marn. n. 1458 et n. 1858 (*O. sphærellæ* Rich.) — Acervulis albis; hyphis brevibus 1–2-septatis; conidiis concatenatis, demum sparsis, ovoideis, hyalinis. 7060

Hab. supra perithecia Nectriæ Dahliæ, cujus statum conidicum sistit, St. Amand Galliæ.

9. **Oospora ovorum** Trab. Champ. par. criq. p. 4, t. 17, f. 5. — Alba; mycelio repente; conidiis in series moniliformes, gregarias, circinantes pluribus (20-30) concatenatis, globosis, 0,7 μ. diam. 7061

Hab. in ovis Acridii peregrini, Algeria.

10. **Oospora Aphidis** Cooke et Mass. Grev. XVI, p. 76. — Hyphis brevibus, continuis, subcæspitosis, hyalinis; conidiis catenulatis, limoniformibus, utrinque apiculatis, primo guttulatis, hyalinis, albis, 17-19 ≃ 12. 7062

Hab. supra Aphides ad folia Cucurbitæ Peponis, Brisbane Australiæ (Bailey).

11. **Oospora rubiginosa** (Riv.) Sacc., *Torula rubiginosa* Rivolta Parass. p. 438, f. 123. — Mycelio repente; hyphis fertilibus, brevibus, ramosis, ramulis catenulas conidiorum gerentibus; conidiis sphæroideis, rubiginosis, 9 μ. diam., minute verrucosis. 7063

Hab. in fœno, Novara Ital. bor.

12. **Oospora rufescens** (Fres.) Sacc., *Torula* Fres. Beitr. p. 86, t. XI, f. 11-17. — Mycelio repente, effuso, albido v. rufescente; hyphis brevibus, rectis, sparsis v. hinc inde 2-3 confertis; conidiis globosis, 5-8 μ. diam. levibus, nucleo refringente, pallide rufescentibus, in catenas longas curvas pluribus (usque 30-36) digestis, subinde conidiis minoribus interjectis. 7064

Hab. in lente crystallina humana, cataractâ opacata et sub vitro servata in Germania (Doct. Mettenheimer).

13. **Oospora versicolor** Speg. F. Guar. nonn. n. 154. — Cæspitulis superficialibus v. erumpenti-diffluentibus, tenuibus, difformibus, minutis, 0,5-1 mm. diam., raris hinc inde aggregatis ac confluentibus, margine tenuissimis, araneoso-evanescentibus, albis v. pallidis, centro parum incrassatulis, subpulvinatulis, primo compactiusculis, dein pulverulentis, flavis, aurantiis vel roseis; hyphis hyalinis, repentibus, septatis, articulis basalibus elongatis, non secedentibus, apicem versus gradatim abbreviatis ac cubcideo-articulatis, 8-10 ≃ 5-15, sensim in conidia abeuntibus; conidiis globosis, 4-6 diam., levibus, catenulatis, hyalinis. 7065

Hab. ad terram, folia ramentaque putrescentia prope Guarapi, Posta-cué et Yaguaron Brasiliæ.

14. **Oospora corii** (Rich.) Sacc. *Torula corii* Rich. Cat. Champ. Marn. p. 1942. — Effusa, crassiuscula, rubescens; conidiis cuboideis, ru- 7066

bellis, in sporophoris brevibus acrogenis et in catenas elongatas, ramosas digestis.

Hab. in corio vetusto udo, St.-Amand Marne Galliæ. — *O. corii* Rich. Champ. Marn. n. 1859 est certe eadem species.

SPORENDONEMA Desm. em. Oudem. Ver. Acad. Amsterd. 1885, p. 115 cum icone (Etym. *spora, endon* intus et *nema* filum). — Hyphæ albæ, steriles repentes, septatæ ramosæ; fertiles assurgentes. Conidia in interiore hypharum generata et catenulatim exsilientia, hyalina, dein fusca. — *Sporendonema Casei* Desm. ad *Oosporam* spectat.

1. **Sporendonema terrestre** Oudem. l. c. — Mycelio ad terram humosam repente albo, articulato, ramoso; hyphis fertilibus erectis, ramosis, continuis; conidiis endogenis, a se invicem remotis, ex hypharum fertilium protoplasmate ortis, primitus hyalinis, utrinque planis, postremo fuscis, utrinque rotundatis, manicatis, i. e. tubulo membranaceo, brevi, achromo ex hypharum interstitiis vacuis circumcisione orto ornatis, $7 \simeq 2^1/_2$ (absque appendiculis maniciformibus). 7067

Hab. in calidariis in pulvere coriario, Amsterdam Hollandiæ.

2. **Sporendonema myophilum** Sacc. in Peck 41 Rep. p. 80. — Hyphis hyalinis, simplicibus vel ramosis, dense intertextis, massam ceraceam, mollem, albam efformantibus; conidiis concatenatis, globosis v. late ellipsoideis, 4-7,5 μ. long. 7068

Hab. in corpore murium viventium, Binghamton Amer. bor. (H. L. Griffis).

FUSIDIUM Link — Sacc. Syll. IV, p. 25.

1. **Fusidium lycotropum** Preuss — Sacc. Syll. IV, pag. 28, Grove in litteris. — Album, tenuiter effusum; conidia ad instar ferri æquini curvata, hyalina, fusiformia, utrinque obtusata, 2-4-guttulata, $18\text{-}30 \simeq 3$, in circulum, subinde fere completum, 6-8 μ. diam. circumflexa, guttulis duobus interioribus, fere semper maximis repleta; conidia concatenata videre non contigit. — In Britannia. 7069

2. **Fusidium Bryoniæ** Brun. Misc. Myc. II, p. 44. — Hyphis patentibus, brevissimis, in maculas olivaceas, subrotundas, confluentes, brunneo-marginatas gregariis; conidiis fusoideis v. oblongis, utrin- 7070

que plus minus rotundatis, hyalinis, vulgo 2-4-pluriguttatis, rectis v. curvis, 18-20 ≃ 4-4,5, moniliformi-seriatis.

Hab. in foliis languidis Bryoniæ dioicæ, Saintes Galliæ.

3. **Fusidium leptospermum** Pass. in Speg. Dec. 54. — Maculis hypo- 7071
phyllis, albis, subrotundis, parvulis; conidiis tenuibus, fusiformi-clavatis, hyalinis, 30-45 ≃ 2½.

Hab. in foliis Ranunculi bulbosi, Parma Ital. bor.

4. **Fusidium magellanicum** Speg. F. Pat. n. 179. — Maculis majuscu- 7072
lis, 2-5 mm. diam., pallescenti-arescentibus, subindeterminatis, concentrice rugulosis; acervulis amphigenis, minutissimis, dense gregariis sæpeque confluentibus, candidis; hyphis non v. vix evolutis, gracillimis, repentibus, non v. vix ramulosis, hyalinis; conidiis catenulatis, cylindraceis, continuis (rarius medio 1-septatis, sed non constrictis), utrinque **ac**rtiusculis (sed vertice truncatulo), rectis v. subcurvulis, 12-30 ≃ 2-2,5, hyalinis.

Hab. ad folia viva Casaleæ cujusdam in rivulis pr. Gregory bay Patagoniæ.

5. **Fusidium Deutziæ** Cooke Grev. XVI, p. 48. — Hypophyllum; cæ- 7073
spitulis minutis, convexis, pulvereis, carneolis; conidiis fusoideis, rectis, hyalinis, continuis, 16-20 ≃ 3-4; sporophoris brevissimis.

Hab. in foliis languescentibus Deutziæ, Holloway Britanniæ.

6. **Fusidium Mimosæ** Pass. et Roum. Rev. Myc. 1885, pag. 178. — 7074
Cæspitulis pulveraceis, glomeratis vel vage sparsis, albidis; conidiis cylindraceo-lanceolatis, rectis vel arcuatis, hyalinis, 10 ≃ 2,5.

Hab. in endocarpio leguminum fracidorum Mimosæ Julibrissin in Gallia (*Reliquiæ* Prostii).

MONILIA Pers. — Sacc. Syll. IV, p. 31.

1. **Monilia carbonaria** Cooke in Grevillea XV, pag. 17. — Cæspi- 7075
tulis compactis, pulvinatis, ellipticis vel confluendo difformibus, aurantiacis vel aurantio-rubris, 1-10 mm. diam.; hyphis repentibus, intricatis, septatis, dissilientibus, vage ramosis; conidiis globoso-ovalibus, primo concatenatis, dein liberis, levibus, hyalinis rubro-tinctis, 8-12 μ. diam.

Hab. in ligno et ramis, New Zealand Australiæ (Colenso).

2. **Monilia aurantiaca** Peck et Sacc. 42 Rep. p. 32. — Cæspitulis 7076
pulvinatis superficialibus compactiusculis mox fragilibus velutino-pulveraceis, 3-5 mm. diam. subinde confluentibus e cinnabarino salmonicoloribus; hyphis radiantibus 10-12 μ. cr., vage ramosis ramulosisque, articulatis, articulis demum secedentibus; conidiis

heteromorphis initio globulosis v. ellipsoideis, 10-12 μ. diam. vel 18 ≃ 10, dein sublimoniformibus, longiuscule sæpeque ramoso-catenatis, 10-12 ≃ 8-9.

Hab. in cortice vix emortuo Ailanthi glandulosæ, Albany N. Y. Amer. bor. — *Mon. aureo-fulvæ* et *sitophilæ* affinis, sed colore cæspitulorum conidiorumque forma et magnitudine sat distincta.

3. **Monilia arctica** Karst. Symb. Myc. Fenn. XXV, p. 24. — Cæspitulis effusis, velutinis, e sordido helvolis; hyphis septatis, longiusculis, 8-10 μ. cr.; conidiis breve catenulatis, ovalibus, sæpissime distincte apiculatis indeque isthmico-conjunctis, hyalinis vel demum dilutissime flavidis, endochromate granuloso, 20-30 ≃ 10-13. 7077

Hab. in ligno Betulæ vetusto in sinu Kola Lapponiæ rossicæ.

4. **Monilia penicillata** E. et E. Journ. Myc. 1888, p. 54. — Effusa v. subcæspitosa, aurantiaca; hyphis sterilibus prostratis, hyalinis, araneosis, minutissimis; hyphis fertilibus erectis, validis, simplicibus v. e basi ramosis, 100-200 ≃ 25-40, aurantiaco-granulosis, non septatis, apice obtuso, subincrassato; conidiis acrogenis, in series incurvas, plus minus ramosas concatenatis, ellipsoideis, utrinque acutis in sicco, udis obtusis, 25-60 ≃ 20-40. 7078

Hab. in ligno putri Newfield et Louisiana Amer. bor.

5. **Monilia effusa** Peck 42 Rep. pag. 32. — Acervulis primo parvis, mox confluentibus et ample effusis, tenuibus, pulverulentis, pallide fulvis v. ochraceis; hyphis hyalinis, septatis; conidiis catenulatis, citriformibus, uno apice v. utrinque apiculatis, 15-17,5 ≃ 10-12,5. 7079

Hab. in ligno putri, Jayville, St. Lawrence county Americæ borealis.

6. **Monilia Peckiana** Sacc. Syll. IV, p. 34, Peck 39 Rep. p. 49, t. II, f. 19-21 — var. **angustior** Sacc. l. c., Peck l. c. f. 22-24. — Inquirendum est an *Monilia fructigena* in ramulis tenellis vivis Persicæ in Amer. bor. (Cfr. Journ. of Myc. 1891, p. 36, t. V), sit potius *M. Linhartianæ* v. *M. Peckianæ* adscribenda.

7. **Monilia microspora** Speg. Guar. I, p. 161. — Acervulis amphigenis, sparsis, maculas depresso-pulvinatas, 2-5 mm. diam., irregulares, crustaceo-pulveraceas, sordide albo-flavescentes hinc inde efformantibus; hyphis omnibus repentibus, continuis vel remotiuscule parcissimeque septulatis, gracilibus, 2-3 μ. cr. subdiffluentibus, dilutissime flavescentibus, dense ramosis, ramulis breviusculis, subassurgentibus, subflexuoso-geniculatis, hinc inde papillulatis; conidiis 7080

ex papillis ramulorum oriundis, cylindraceo-ellipsoideis, utrinque late truncatis, 4-5 ≃ 2,5-3, levibus, catenulatis, pallide flavescentibus.

Hab. ad folia dejecta putrescentia Citri Aurantii pr. Guarapi Brasiliæ.

8. **Monilia pruinosa** Cooke et Mass. Grev. XVI, p. 78. — Effusa, te- 7081
nuis, albo-pruinosa; hyphis flexuosis, elongatis, septatis, 10-12 μ. diam., irregulariter ramosis; conidiis breviter catenulatis, subglobosis v. ovoideis, hyalinis, 14-15 ≃ 12.

Hab. in foliis languidis Caladii, Kew London Britanniæ.

9. **Monilia Kochii** (Wettst.) Sacc. *Rhodomyces Kochii* Wettst. Un 7082
tersuch. ueb. paras. d. mensch. Koerp. cum tab. p. 7. — Mycelio hyalino, tenui, ex hyphis sterilibus nunc continuis nunc septatis efformato, articulis 26-60 ≃ 6-16; hyphis conidiophoris assurgentibus, roseis v. flavido-rubris, ex articulis brevibus, rotundis vel breve cylindraceis compositis, copiose et repetite ramosis, superioribus denticulis obtusulis sæpius binis auctis; conidiis catenulatis, rotundis, ovoideis v. polygoniis, 6-16 μ. diam. v. 15-20 ≃ 6-15, hyalinis, membrana tenui præditis, e denticulis oriundis.

Hab. parasitica in membrana mucosa corporis humani in Austria. — « Mihi omnino *Monilia* ».

10. **Monilia obducens** Karst. Hedw. 1891, p. 248. — Cæspitulis gos- 7083
sypinis late effusis, albidis, dein ob conidia sordide roseis v. isabellinis; hyphis repentibus, vage ramosis, articulatis, hyalinis, 2-6 μ. cr., levibus; conidiis concatenatis, sphæroideis, raro late ellipsoideis, levibus, isabellinis, sub lente hyalinis v. hyalino-flavescentibus, 6-10 μ. diam.

Hab. ad corpus Colubri Natricis in spiritu vini asservati, Mustiala Fenniæ.

CYLINDRIUM Bon. — Sacc. Syll. IV, p. 36.

1. **Cylindrium Luzulæ** (Lib.) Sacc. in Rev. myc. 1885, tab. LV, f. 8, 7084
Psilonia Luzulæ Lib. Exc. — Acervulis pulvinatis, compactiusculis, candidis; conidiis cylindricis, utrinque truncatulis, catenulatis, hyalinis, 5-6 × 1.

Hab. in foliis Luzulæ maximæ in Arduennis (Libert) et in Gallia australi (Ang. Roumeguère).

2. **Cylindrium flexile** Karst. in Hedw. 1891, p. 302. — Acervulis pulvi- 7085
natis, difformibus, tremellinis, flexilibus, hyalino-albidis, siccis pulverulentis et candidis, minutis vel parvis; hyphis tenellis, conti-

nuis, vulgo ramosis, 50-70 ≃ 1,5-2; conidiis concatenatis, facillime secedentibus, cylindraceis, rectis, utroque apice obtusis, intus granulosis seu minute guttulatis, rarissime obsolete tenuiter 1-septatis, hyalinis, 22-32 ≃ 3-5,5.

Hab. in ramis ramulisque Tiliæ et Piri in agro mustialensi Fenniæ.

3. **Cylindrium minutissimum** Rabh. Unio Itin. XXIV, Grev. XVII, p. 69. — Perexiguum; conidiis cylindricis, utroque polo rotundatis, achrois, hyalinis, apicibus concatenatis; catenis plus minus ramosis. 7086

Hab. in Stachyde glutinosa in consortio Torulæ, Lanusei Sardiniæ (Marcucci).

4. **Cylindrium pulvinulatum** Karst. Hedw. 1890, p. 272 — Cæspitulis sparsis, rarissime confertis, rotundatis, rarius oblongatis, convexis, nudis, albis 0,3-0,5 mm. diam.; catenulis filiformibus stipatissimis, erectis, simplicibus, 150-180 μ. longis; conidiis cylindraceis, utrinque truncatis, rectis vel flexuosis, -pluriguttulatis, 9-12 ≃ 2. 7087

Hab. supra asseres Pini prope Mustiala Fenniæ.

5. **Cylindrium fuegianum** Speg. F. Fueg. n. 435. — Cæspitulis superficialibus effusis 2-3 mm. diam., sparsis v. laxe gregariis, rarius confluentibus, compactiusculis, aurantiacis v. flavescenti-carneis; conidiis cylindraceis, utrinque leniter attenuatis ac truncatis 15-20 ≃ 1,5, catenulatis, continuis rarissime medio 1-septatis non constrictis, granuloso-farctis, hyalinis v. subcarneis. 7088

Hab. ad folia dejecta putrescentia Fagi betuloidis in Staten island et Fuegia. — Species *C. flavo-virescenti* Ditm. peraffinis sed satis distincta.

POLYSCYTALUM Riess — Sacc. Syll. IV, p. 38.

1. **Polyscytalum cylindroides** Sacc. et Ell. Journ. of Myc. 1888, p. 105. — Hyphis e basi paullo incrassata subcylindricis, brevibus, subfuligineis, subsimplicibus, catenulis passim ramosis; conidiis cylindricis, utrinque obtuse rotundatis, spurie 1-septatis, 15-20 ≃ $2^1/_2$-3. 7089

Hab. in foliis dejectis Quercus virentis et Q. aquaticæ, Pointe à la Hache La. Amer. bor. (Rev. Langlois). — Cæspituli vix 1 mm. diam. A *Pol. fecundissimo* hyphis subsimplicibus differt, a *P. sericeo* conidiis æqualibus etc.

OIDIUM Link — Sacc. Syll. IV, p. 41.

1. **Oidium Verbenæ** Thüm. et Boll. Contr. Fung. lit. austr. III, p. 6. — Maculas plus minusve orbiculatas vel sinuosas, subparvas, solitarias, nondum confluentes, laxas, in foliorum pagina superiore colore ex subgriseo roseo vel sordide albescente formans; hyphis brevibus, subrectis, septatis, hyalinis; conidiis longe ellipsoideo-subparallelo-grammis, utrinque vix rotundatis, hyalinis, 10-12 ≃ 4-7. 7090

   Hab. ad folia viva Verbenarum hortorum, Gorizia Ital. bor.

2. **Oidium erumpens** Cooke et Mass. Grev. XVI, p. 49. — Hypophyllum; cæspitulis griseo-albis, erumpentibus, compactiusculis, per ætatem obscurioribus; conidiis subglobosis, initio compressione subcuboideis, catenulatis, hyalinis, 7 ≃ 5; sporophoris brevibus. 7091

   Hab. in foliis vivis Riveæ hypocrateriformis, Kew London Britanniæ.

3. **Oidium Fragariæ** Harz Bot. Centr. 1887, IV, p. 314. — Hyphis hypophyllis, tenuibus, laxis, fertilibus sparsis; conidiis ovoideis 30-32 ≃ 14-15, utrinque leniter truncatis, subhyalinis. 7092

   Hab. in foliis Fragariæ (var. Ananas) cultæ, München Bavariæ. — Plantæ a fungillo valde vexantur. *O. Ruborum* differre videtur conidiis 28 ≃ 17 utrinque rotundatis.

4. **Oidium lycopersicum** Cooke et Mass. Grev. XVI, p. 114. — Cæspitulis effusis, indeterminatis, albis, mycelio arachnoideo, hyphis brevibus, ramulosis, erectis; conidiis subglobosis, concatenatis, hyalinis, 8-9 μ. diam. 7093

   Hab. in caulibus et foliis Solani Lycopersici, Upper Yarra Britanniæ.

5. **Oidium Cydoniæ** Pass. in Thuem. Myc. Univ. 1667. — Effusum, album; conidiis ellipticis subsolitariis vel duobus tribus concatenatis, hyphis longis fultis, 22-23 ≃ 15. 7094

   Hab. in foliis vivis Cydoniæ vulgaris, Parma Ital. bor.

6. **Oidium farinosum** Cooke Grev. XVI, p. 10. — Album, farinaceum, effusum, folia juvenilia ramulosque obtegens; hyphis simplicibus in conidia ellipsoidea, truncata, levia, 28-30 ≃ 12, hyalina abeuntibus. 7095

   Hab. in ramis foliisque Mali in Britanniæ pluribus locis. — «Forte var. *Oid. leucoconii*».

7. **Oidium pirinum** Ell. et Ever. Journ. Mycol. 1889, p. 68. — Maculis magnis, dilute brunneis, definite subirregulariterque definitis, 7096

demum totam folii superficiem occupantibus et necantibus; hyphis repentibus, nullis vel saltem inconspicuis; hyphis fertilibus gracilibus, pro parte cum conidio persistentibus conidiis copiosis, in massam pulveream, pallide cineream aggregatis, 3-4 in series concatenatis, membrana subinæquali, hyalinis, 12-16 μ. diam.

Hab. in foliis Piri coronariæ, Racine, Wisconsin Americæ borealis.

8. **Oidium obductum** Ell. et Langl. Journ. Myc. 1890, p. 35. — Hypo- 7097
phyllum, cinereo-album late effusum; hyphis sterilibus tenuibus, 3-4 μ. cr., parce septatis, ramosis, laxe intricatis; conidiis magnis 35-50 × 18-22, elliptico-doliiformibus, concatenatis, utrinque truncatis.

Hab. in foliis vivis Quercus (falcatæ?) junioris, St. Martinsville La. Amer. bor. (Langlois).

9. **Oidium destruens** Peck 32 Rep. pag. 41. — Effusum in maculis 7098
latis brunneis, odorum, albido-cinerescens; hyphis biformibus, sterilibus repentibus, ramosis, fertilibus erectis vel decumbentibus, subramosis, catenulas conidiorum formantibus; conidiis inæqualibus, ellipsoideo-subglobosis angulosisve utrinque apiculatis, 5-15 μ. long.

Hab. in foliis vivis Amelanchieris canadensis et Pruni serotinæ, Center et Sandlake Amer. bor. — «An cum *Monilia Linhartiana* comparandum?»

Subsect. 2. **Macronemeæ** Sacc.

Trib. 3. Cephalosporieæ Sacc.

ŒDOCEPHALUM Pr. — Syll. IV, p. 47.

1. **Œdocephalum byssinum** (Bon.) Sacc. IV, p. 49 — ***herbariorum** 7099
Karst. Symb. Myc. Fenn. XXVI. p. 30. — Hyphis erectis, hyalinis, haud septatis, solito æqualibus, 0,2 mm. altis, 15-20 μ. cr.; capitulis rotundis, albis demum flavescentibus; conidiis exacte sphæroideis, verruculosis ex hyalino flavidis 12-14 μ. diam.

Hab. in foliis Ranunculi repentis in herbario asservatis, prope Vasa Fenniæ lectis.

2. **Œdocephalum sulphureum** Cooke et Mass. Grev. XVII, p. 3. — 7100
Cæspitulis hemisphæricis vel confluentibus, sulphureis; hyphis septatis dichotomis, apice globoso-inflatis, papillatis; conidiis globosis hyalinis, 3-5 μ. diam., episporio levi.

Hab. in chorda uda, Kew London Britanniæ.

3. **Œdocephalum echinulatum** Thaxt. Bot. Gaz. 1891, pag. 17, t. IV, f. 8-11. — Album, demum flavidum; hyphis sterilibus fertilibusque non prorsus distinctis, ultimis plus minus irregulariter et indefinite ramosis; vesiculis conidiophoris e sphærico obovoideis 35 × 28, rarius usque 65 × 45, obsolete areolatis muriculatisque; conidiis ex ovato ellipsoideis, tenuiter echinulatis, 12 × 10, rarius usque 25 × 18. 7101

Hab. in caseo et charta caseum obvolvente, Massachusetts Amer. bor. — Videretur *Œdocephalum* proliferum. Cfr. *Choanophora* Cunn., Syll. IX, p. 339.

4. **Œdocephalum agaricinum** Rich. Cat. Champ. Marn. n. 1870. — Cæspitulis fasciculatibus; hyphis hyalinis; conidiis concatenatis, in capitulum ochraceum congestis, hypharum apice minute verrucoso insertis. 7102

Hab. in pileo Agaricineæ cujusdam, Sermaize Marne Galliæ.

5. **Œdocephalum verticillatum** Thaxt. Bot. Gaz. 1891, pag. 18, t. IV, f. 12-14. — Album, demum flavidum; hyphis sterilibus repentibus, crebre septatis, ramosis, hyphas fertiles 2-4 ex uno puncto verticillatim ascendentes emittentibus, hyphis fertilibus septatis, filiformibus 4 μ. cr. in vesiculam sphæricam abrupte apice dilatatis; vesicula tenuissime areolata, 20-25 μ. diam.; conidiis grossiuscule muriculatis, sphæricis, 5-7 μ. diam. 7103

Hab. in excrementis Lacertarum, E. Tennesee Amer. bor.

RHOPALOMYCES Corda — Syll. IV, p. 50.

1. **Rhopalomyces strangulatus** Thaxt. Bot. Gaz. 1891, p. 21, t. III, f. 3-9. — Hyphis sterilibus copiosis, valde ramosis, parce septatis, 4 μ. diam., fertilibus dense gregariis, basi rhizinis copiosis præditis, hyalinis, cylindricis, 2-8 mm. altis, 40-50 μ. cr., infra vesiculam abrupte et arcte constrictis; vesicula globosa, magna, 250 μ. diam., plus minus distincte areolata; conidiis numerosissimis, subcylindricis utrinque rotundatis, 39 × 8,5-10. 7104

Hab. in ossibus aliisque substantiis animalibus putrescentibus, Massachusetts, Connecticut Amer. bor. — Cl. Thaxter, cui libenter assentior, discrimen typicum inter *Œdocephalum* et *Rhopalomycetem* ponit in hyphis mycelicis, quæ in hoc postremo sunt radiculiformes, in illo hyphæ fertili fere conformes et magis evolutæ.

2. **Rhopalomyces nigripes** Cost. Bull. Soc. Bot. Fr. 1886, p. 493. — Hyphis fertilibus brunneis, apice in vesiculam concolorem, sterig- 7105

matibus hirtam, 28-80 μ. diam.; conidiis brunneis, elongatis, uno apice acuminatis, altero rotundatis, 25-34 ≃ 8-9.

Hab. ad Pezizam arenariam in Gallia.

SIGMOIDEOMYCES Thax. Bot. Gaz. 1891, p. 22, t. IV (Etym. *sigma, sigmoides* et *myces*). — Hyphæ fertiles erectæ, septatæ, in curvas sigmoideas pluries flexæ, intricate ramosæ vel pseudo-dichotomæ, ramuli ultimi steriles. Vesiculæ conidiophoræ globosæ laxe muriculatæ, per pedicellos breves exiles hyphis hærentes, pleurogenæ. Conidia globosa, crasse tunicata, subhyalina.

1. **Sigmoideomyces dispiroides** Thax. loc. cit. f. 15-18. — Cæspitulis flavido-brunneolis, 1 mm. alt., hyphis varie intricatis, dense septatis, sigmoideo-ramosis, ramis quoque sigmoideis ramulis ultimis subfalcatis, acutis, homomallis; vesiculis 35-45 μ. diam. globosis; conidiis late ellipsoideis v. subsphæricis, flavidis, echinulatis, 17 ≃ 16. 7106

Hab. in ligno putri, Burbank, E. Tennesee Amer. bor.

CEPHALOSPORIUM Corda — Sacc. Syll. IV, p. 56.

1. **Cephalosporium (?) tumefaciens** Winter in Hedwigia 1885, p. 259. — Conidiis 4-10 glomerulos hemisphæricos formantibus, oblongo-subcuneatis, vertice rotundatis, deorsum, plus minusve attenuatis, continuis, pallide fuscidulis, interdum parum curvatis, 10-16 ≃ 5-7. 7107

Hab. ad plantam frutescentem vel arboream vivam, adhuc indeterminatam folia ramulosque tumefaciens et deformans prope S. Francisco Brasiliæ (E. Ule).

2. **Cephalosporium Acremonium** Corda — Syll. IV, p. 56 — Var. **uniseptatum** Massee Dis. of Coloc. p. 48, t. I, f. 3. — Conidiis oblongo-ellipsoideis, utrinque acutiusculis, 1-septatis, 10 × 4 (ex icone). 7108

Hab. parasiticum in hyphis Heterosporii Colocasiæ in Colocasia esculenta, Jamaica Amer. centr. — «Ob conidia 1-septata vix *Cephalosporium* et potius *Cephalothecium*».

CORETHROPSIS Corda — Sacc. Syll. IV, p. 62.

1. **Corethropsis epymices** Massee New Microfungi pag. 3, fig. 16-18. — Gregaria; stipitibus albis, simplicibus, conicis, hyphis permultis compositis undique orientibus, præter basim incrassatam septatis, patentibus, nonnullis capitulum conidiorum subglobosum gerentibus; conidiis hyalinis, oblongo-linearibus, oblique apiculatis. 7109

Hab. in Mycena pura putri, socio *Spinello fusigero*, Scarborough Britanniæ.

Trib. 4. Aspergilleæ Sacc.

ASPERGILLUS Mich. — Syll. IV, p. 61 *).

1. **Aspergillus atrovirens** Karst. Symb. XXVI, p. 28. — Hyphis sterilibus repentibus, ramosis; fertilibus assurgentibus, hyalinis, apice vesiculoso-inflatis; capitulis cylindraceis, sphæroideo-clavatis v. rotundatis, atrovirentibus; conidiis sphæroideis, levissimis, catenulatis, basidiis nullis suffultis, æruginosis, sub micr. chlorinis vel chlorino-hyalinis, 4-6 μ. diam. 7110

   Hab. in fructibus Amygdali communis, Mustiala Fenniæ, socio *Eurotio lateritio.*

2. **Aspergillus aviarius** Peck 44 Rep. p. 25, t. IV, fig. 9-12. — Hyphis sterilibus repentibus, albis v. albidis; fertilibus erectis, simplicibus, continuis, 7 μ. cr., apice in vesiculam globosam, subpapillosam, 20-30 μ. latam terminatis; conidiis globosis, levibus, 2-2,5 μ. diam. catenulatis e vesicula immediate oriundis, demum cæsio-glaucescentibus. 7111

   Hab. in cavitate thoracica avis (Serini canarii), quæ forte hac de causa decessit, New York Amer. bor. (E. B. Southwick).

3. **Aspergillus fimetarius** Peck 42 Rep. p. 32. — Albus; hyphis sterilibus repentibus, fertilibus erectis, simplicibus, septatis, apice paullo incrassatis; basidiis oblongis v. subcylindraceis, apice acuminatis, 12,5-15 μ. long.; conidiis globosis, 4-5 μ. diam. 7112

   Hab. in fimo Damæ in montibus Adirondack Amer. bor. — *A. candido* affinis.

STERIGMATOCYSTIS Cram. — Sacc. Syll. IV, p. 71.

1. **Sterigmatocystis Coronella** Costant. Muced. simples p. 34 c. ic. — Alba; hyphis sterilibus, filiformibus 1-septatis, 5 μ. cr.; fertilibus erectis, crassis, continuis, 16-18 μ. cr., apice in vesiculam 37 μ. lat., leviter dilatatis; basidiis densis teretibus apice sterigmata 2-4 subfusoidea gerentibus; conidiis ellipsoideis, levibus, 5 ∞ 3. 7113

   Hab. in ligno emortuo in Gallia.

2. **Sterigmatocystis nidulans** Eid. in Cohn Beitr. III, p. 392, t. XX-XXII. — Cæspitulis confluentibus, flavo-viridulis, dein obsolete vi- 7114

*) *Aspergilli* et *Sterigmatocystis* genera, quamvis a claris viris van Tieghem, Bainier, Wilhelm, Gasperini aliisque perquisita, plurimis dubiis, præcipue quod ad specierum distinctionem, adhuc obruuntur, quare epicrisis nova et severa maxime exoptatur.

ridibus; hyphis sterilibus repentibus, fertilibus assurgentibus simplicibus v. 2-3-furcatis, parce septatis, apice modice dilatato-truncatis; basidiis brevibus oblongis, apice sterigmata 2-4 obclavata gerentibus; conidiis globosis, 3 μ. diam. breviter catenulatis, levibus.

Hab. in nidis Bomborum in horto botanico Breslau Germaniæ. — Infra mycelium oritur etiam forma ascophora sclerotiacea, ascis ovoideis, 8-sporis, sporidiis ellipsoideis leviter canaliculatis. Cfr. quoque Lindt Path. Schimm. p. 284.

3. **Sterigmatocystis variabilis** (Gasp.) Sacc., *Aspergillus variabilis* 7115
Gasp. Morb. Lim. p. 23. — Hyphis erectis, continuis v. varie septatis et raro ramosis, 0,5-0,7 mm. alt., 5-16 μ. diam., in vesiculam 10-60 μ. diam., apice tantum basidiophoram inflatis; basidiis radiantibus, 6-18 μ. cr., simplicibus vel ramosis et usque ad 3 sterigmata, 3-5 μ. long. gerentibus; conidiis in capitulum integrum, 90-115 μ. diam., virens congestis, primum levibus, hyalinis, 3 μ. diam., dein viridulis, 5-6,5 μ. diam., sphæricis vel globosis, levibus vel tenue verruculosis.

Hab. in fructibus putridis Hesperidearum, Pavia Italiæ. — Affinis *St. variæ*.

4. **Sterigmatocystis dasytricha** Ell. et Ev. in Journ. of Myc 1886. 7116
p. 104. — Hyphis fertilibus effusis, velutinis, erectis, pallide olivaceo-brunneis, septatis, 250-300 × 6-8, apice in capitulum ovoideum vel oblongum dilatatis; sterigmatibus noduloso-ramosis, 20-25 × 4, apice obtusis vel sublobatis, ramos brevissimos vel tubercula irregulariter disposita gerentibus, capitulum oblongum formantibus, 45-60 × 20-25; conidiis oblongo-cylindraceis, hyalinis, 5-7 × 1¼-1½, solitariis vel 2-3 catenulatis, apice basidiorum insertis.

Hab. in ligno emortuo in America boreali (Langlois). — Primo obtutu colore cæspitulorum *Menisporam glauco-nigram* in mentem revocat.

5. **Sterigmatocystis elegans** (Gasp.) Sacc., *Aspergillus elegans* Ga- 7117
sper. Morb. Limon. p. 16. — Mycelio albo, repente; hyphis fertilibus erectis, continuis, simplicibus, primum hyalinis demum dilute ochraceis atque tenuissime epiguttulatis, 1-6 mm. long, 5-12 μ. diam., in vesiculam sphæricam usque ad 70 μ. diam. dilatatis; basidiis radiantibus, confertis, clavulatis, omnino vesicæ superficiem tegentibus, 4-26 μ. long.; sterigmatibus 2-6 (sæpius 3), 7-14 × 1-2; conidiis inferioribus ovoideis v. sphæroideis, hyalinis, ceteris perfecte sphæricis, 3-3,5 μ. diam, numerosis, episporio tenuissime ver

ruculoso, æqualibus, continuis, ochraceis, in capitulum integrum, ochraceum, 20-130 μ. diam. congestis.

Hab. in fructibus putrescentibus Citri Limonum, in pane udo etc.. Pavia Italiæ.

6. **Sterigmatocystis subfusca** (Johan.) Sacc., *Aspergillus subfuscus* Johan-Olsen in Bot. Jahresb. 1886, p. 476 et Meddel. Naturhist. Foren. Kristian. 1885. — *Sterig. nigræ* valde affinis, differt mycelio candido, hyphis conidiisque olivaceo-brunneis. 7118

Hab. in Norvegia. — Optime viget temp. 35-38°C; præbet formas involutionis radiatas.

7. **Sterigmatocystis violaceo-fusca** (Gasp.) Sacc., *Aspergillus violaceo-fuscus* Gasp. Sopra Morb. Limon. p. 14. — Effusa; hyphis sterilibus ramosis, septatis; fertilibus erectis, simplicibus, continuis, cylindraceis, hyalinis, 12–18 μ. diam., circ. 2 mm. alt., apice in vesiculam sphæricam, 42-51 μ. diam., inflatis; basidiis radiantibus, cylindrico-conoideis, 6-8 μ. long., apice 3 μ. cr., sterigmatibus simplicibus, cylindricis vel piriformibus, 2-4 μ. long.; conidiis in capitulum integrum, usque ad 95 μ. diam., ovoideis, verruculosis, primo hyalinis, dein violaceo-fuscis, 3-6$^1/_2$ = 3$^1/_4$-5. 7119

Hab. in fructibus Hesperidearum, in seminibus coctis Zeæ Maydis aliisque substantiis vegetabilibus, Pavia Italiæ.

8. **Sterigmatocystis chlorina** Cooke et Mass. Grev. XVIII, p. 7. — Effusa, maculiformis, atro-fusca; hyphis erectis, simplicibus, supra globoso-inflatis; vesiculæ basidiis cuneatis, radiantibus, hyalinis, sterigmata 3-4, ellipsoidea, olivacea, gerentibus; conidiis globosis, levibus, olivaceis, 5-6 μ. diam. 7120

Hab. in fructibus Citri, E. New Guinea (Doct. Mac-Gregor).

9. **Sterigmatocystis Phœnicis** (Corda) Pat. et Del. Bull. Soc. Myc. 1891, p. 119, t. IX, *Ustilago* Corda — Syll. VII, p. 459. — Initio effusa candidissima, filamentosa, septata; hyphis fertilibus cespitulosis, usque 1 mm. alt., erectis, sordide purpurascentibus, 15 μ. cr., vesicula globosa punctata, 75 μ. diam.; basidiis clavatis, 40 = 15, sterigmata quaterna obclavata 10-12 = 3-4, gerentibus; conidiis atropurpureis catenulatis, levibus, minutis, angulato-sphæroideis, episporio crassiusculo, 5 ≷ 3,5-4,5. 7121

Hab. in parte interiore fructuum Phœnicis dactyliferæ, usque ad superficiem nuclei, in Ægypto et Tunisia.

10. **Sterigmatocystis Ustilago** (Beck) Sacc., *Aspergillus* G. de Beck Itin. princ. Cob p. 148, t. 16, f. V. — Fuliginosa, aggregata; hyphis sterilibus paucis, hyalinis; fertilibus erectis, simplicibus, 0,5-0,8 7122

mm. long., striatulis, apice globoso-inflatis ibique 75 μ. lat. et membrana crassiuscula, basidiis elapsis, dense punctulata præditis; basidiis cuneato-clavatis, 50 μ. longis, apice 3-4 sterigmata fusoidea gerentibus; conidiis globosis vel subglobosis, verruculosis, copiosis, 2,5-4,9 μ. cr.

Hab. intra pericarpia Phyllanthi Emblicæ, cavitatem investiens Ustilaginis instar, Satpoorgebirge Indiæ occid. — « Affinis videtur *St. phœocephalæ* ».

11. **Sterigmatocystis Delacroixii** Sacc., *Sterigmatocystis ochracea* De- 7123
lacr. Bull. Soc. Myc. 1891, p. 109, t. VII, fig. *f*, nec Wilhelm. — Candida dein ochracea; hyphis fertilibus, erectis, simplicibus, continuis, pallide ochraceis, usque 0,5-1 mm. long., vesicula globosa, dilutissime colorata, 90 μ. diam., basidiis delapsis punctata; basidiis hyalinis, 39 × 12, sterigmata 3-4 gerentibus; conidiis catenulatis, globosis, hyalinis, tenuiter echinulatis, 7-8 μ. diam., catenulis subinde a medio furcatis.

Hab. in gelatina saccharata in laboratorio, Paris Galliæ.

12. **Sterigmatocystis ochracea** (Wilhelm) van Tighem, *Aspergillus* 7124
Wilhelm Pilzgatt. Asperg. pag. 66. — Hyphis fertilibus, mycelii hyphis multo crassioribus, membrana valde incrassata firma, flavescente, verrucosa; capitulis conidiorum ochraceis; conidiis globosis, raro ovoideis, 3,5-5 μ. diam., episporio tenuissime verruculoso decolore v. flavescente.

Hab. in pane udo putrescente in Germania et in Gallia.

AMBLYOSPORIUM Fres. — Sacc. Syll. IV, p. 77.

1. **Amblyosporium bicolium** Cost. Bull. Soc. bot. Fr. 1887, p. 30. — 7125
Hyphis fertilibus cum conidiis 4-5 mm. alt., septatis, apice ramulis conidiophoris brevissimis præditis; conidiis dolioliformibus angustissimis, utrinque colliformi-attenuatis, 21 × 7, concatenatis.

Hab. ad basin Lycoperdi gemmati pr. Paris Galliæ.

2. **Amblyosporium album** Rich. Cat. Champ. Marn. n. 1880. — Cæ- 7126
spitulis parvis; hyphis dichotomis, apice in basidia numerosa umbellatim disposita desinentibus; conidiis ovoideis.

Hab. in pileo Polypori cujusdam apodi, St.-Amand Galliæ.

PENICILLIUM Link — Sacc. Syll. IV, p. 78.

1. **Penicillium Duclauxi** Delacr. Bull. Soc. Myc. 1891, p. 107, t. VII, 7127

f. *e.* — Effusum candidum v. sulphureum, mox olivaceum; hyphis fertilibus erectis, septatis, apice iterato stricte ramosis, ramulis ultimis tereti-fusoideis, catenulas conidiorum elliptico-sphæroideorum, 3–4 μ. diam., virescentium gerentibus.

Hab. in uvis ex Tunisi, quæ in aqua fervebant, in laboratorio (E. Duclaux). — Simul oritur forma fasciculata (*Coremium*) clavata, subcitrina, supra olivacea, interdum 2 cm. long., ex hyphis septatis, 3 μ. cr., coalitis constans.

2. **Penicillium roseum** Link, Syll. IV, p. 83. — Sec. cl. Oudem. Contr. Myc. XI, p. 35, genuina species præbet conidia ex hyalino rosea, 5–6 ≃ 2-2,5; hæc nascitur quoque in radicibus putridis Dauci Carotæ in Nederlandia. — **Pen. candidum** Link, Syll. IV, pag. 79. Hujus speciei cl. Morini (Malp. 1888, pag. 224) statum ascophorum illustravit.

GLIOCLADIUM Corda. — Sacc. Syll. IV, p. 84.

1. **Gliocladium lignicolum?** Grove in Journ. of Bot. 1886, p. 199. — 7128
Hyphis gregariis vel fasciculatis, erectis, æqualibus, 3-4-septatis, hyalinis, apice penicillatim di-trichotomis; capitulo conidiorum globoso v. obovato, albo; conidiis muco conglutinatis, hyalinis, oblongo-ovoideis, 2-2,5 ≃ 1,5.

Hab. in ligni superficie, Barnt Green Britanniæ. — A *G. penicillioide* non nisi conidiis duplo brevioribus et loco natali differt; forsan potius varietas habendum. Hyphæ parte inferiori, quin etiam ramuli, ligni succo colore brunneo tincti sunt.

2. **Gliocladium compactum** Cooke et Mass. Grev. XVI, p. 16. — Cæ- 7129
spitulis minutis, punctiformibus, ferrugineis; hyphis erectis, congestis, cæspitulos compactos efformantibus, septatis, plerumque simplicibus; capitulo conidiorum cuneato, pallide fusco, diu muco obvoluto; conidiis conglutinatis, oblongis, concatenatis, 5 ≃ 3, hyalino-fuscis.

Hab. in charta uda ex India.

3. **Gliocladium agaricinum** Cooke et Mass. Grev. XVII, pag. 80. — 7130
Cæspitulis hemisphæricis, subinde confluentibus, pallidis dein albis, initio gelatinosis; hyphis repentibus, ramosis, fertilibus erectis, ramulis ultimis verticillato-quaternis; capitulo conidiorum subgloboso, albo; conidiis initio glutinosis, subglobosis, hyalinis, 5–6 μ. diam.

Hab. in Agarico campestri culto, pileum ejusdem squamoso-diffractum reddens, Leicester Britanniæ.

Trib. 5. Botryteæ Sacc.

HAPLARIA Link — Sacc. Syll. IV, p. 45.

1. **Haplaria nitens** Delacr. Bull. Soc. Myc. 1890, p. 140. — Cæspitulis 7131
niveis, mycelio albo, guttulato, septato, repente, 10-12 μ. cr.; hyphis fertilibus erectis, septatis, plerúmque pluri-furcatis; conidiis sessilibus, sursum dense aggregatis, 5 μ. cr., hyalinis.

Hab. in cortice quercino coriario in laboratorio pathol. veget. Paris Galliæ.

2. **Haplaria rhizophila** Sacc. et F. Sacc. Myc. Sib. p. 25, fig. 31. — 7132
Effusa, ochraceo-fusca, subvelutina, laxa; hyphis fertilibus erectis v. declinatis vage ramosis, parce septatis, dilute fuligineis, tandem obscurioribus, ramulis vero subhyalinis; hyphis superne ramulisque crebre acute denticulatis; conidiis hyalinis ovoideis, exiguis, 2-4 ∽ 3, denticulis oriundis.

Hab. in radice putrescente adhuc semiinfossa Betæ pr. Minussinsk Sibiriæ (Martianoff).

3. **Haplaria Ellisii** Cooke Grev. XVII, p. 69. — Tenuiter effusa, pur- 7133
pureo-fusca; hyphis tenuibus, erectis, simplicibus, subopacis, atro-fuscis; conidiis ovatis, continuis, concoloribus, 4 ∽ 2.

Hab. in ligno Abietis Douglasii etc., California, New Jersey Amer. bor.

BLASTOMYCES Cost. et Roll. Bull. Soc. Myc. 1888, p. 153 (Etym. *blastos* germen et *myces*). — Hyphæ parce ramosæ, septatæ, filiformes, primariæ lateraliter brevi-ramulosæ, ramulis in conidia obovata, basi truncata abeuntibus; secundariæ assurgentes flexuosæ sursum vage denticulatæ et conidia e globoso cuboideo-polygona, demum massam pulveraceam formantia gerentes. Adsunt quoque in mycelio chlamydosporæ aquaticæ et æreæ. — «Genus mihi sat ambiguum.».

1. **Blastomyces luteus** Cost. et Roll. l. c. — Cæspitulis e sulphureo 7134
aurantiis, interdum viridulis; conidiis hyalinis, angulosis, ovoideis v. subrotundis, 6 ∽ 4.

Hab. in fimo ursino, Paris Galliæ.

CYLINDROTRICHUM Bon. — Sacc. Syll. IV, p. 88.

1. **Cylindrotrichum polyspermum** Karst. Symb. Myc. Fenn. XXVIII, 7135
p. 44. — Hyphis tenerrimis, hyalinis, 2-3 μ. cr., cæspites tenuissimos, effusos, niveos formantibus; conidiis copiosissimis, cylindra-

ceis, utrinque rotundatis, rectis, guttulatis, hyalinis, 10–12 ≃ 1,5-2.

Hab. supra folia putrescentia, præcipue Populi pyramidalis, in horto mustialensi Fenniæ.

2. **Cylindrotrichum repens** Bon. — Syll. IV, p. 88. — ***C. ferruginascens** Karst. Symb. XIV, p. 89. — Cæspitulis forma variis, plerumque oblongatis v. elongatis, 2-5 mm. long. ferruginascentibus; hyphis sterilibus et fertilibus subrepentibus, simplicibus, obsolete septatis, flavescentibus (sub lente); conidiis cylindraceis, simplicibus, rectis, 6-10 ≃ 1-1,5. 7136

Hab. in caulibus emortuis Umbelliferarum prope Mustiala Fenniæ.

PHYSOSPORA Fr. — Syll. IV, p. 88.

1. **Physospora elegans** Cav. Mat. Lomb. p. 12, t. I, f. 4. — Cæspitulis subglobosis, gregariis, levibus, dilute aurantiacis vel carneis; hyphis sterilibus ramosis, septatis, lutescentibus, fertilibus procumbentibus saturatioribus, granulosis, ramis oppositis vel sæpius alternis, crassioribus, valde inflatis denticulatisque vel in vesiculas globosas exeuntibus; conidiis citriformibus, basi appendiculatis, levibus, plasmate granuloso, luteo farctis, sæpe in catenulas radiantes dispositis, 15-18 ≃ 11-13. 7137

Hab. in truncis putridis in cellis Instituti botanici Pavia Italiæ. – «An satis diversa a *Ph. rubiginosa?*».

HYPHODERMA Fr. — Sacc. Syll. IV, p. 89. Cfr. Karst. Hedw. 1890, pag. 179.

1. **Hyphoderma lætum** Karst. Rev. Myc. 1889. — Effusum, corticiiforme, crustaceo-membranaceum, fragile, continuum, leve, subtus subtiliter byssoideum album, ambitu subsimilari, læte roseum; hyphis sterilibus, repentibus, torulosis, ramosis, septatis, dense intertextis, hyalinis, 6-18 μ. cr.; hyphis fertilibus breviusculis, parallele stipatis, cylindraceo-clavulatis; conidiis acrogenis, solitariis, ovoideis v. sphæroideis, ellipsoideis, subinde primitus sphæroideis, subhyalinis, eguttulatis, 12-19 ≃ 9-12 v. 12-15 μ. diam. 7138

Hab. in corticibus muscisque, quos obducit. in Fennia pr. Brodtorp (Edw. Hisinger).

2. **Hyphoderma niveum** Fuck. Symb. Myc. p. 364. — Globulis hemisphæricis, 2 mm. latis, primo ex hyphis ramosis, septatis, niveis, arachnoideis contextis, demum intus in pulverem niveum, e coni- 7139

diis constantem solutis; conidiis constanter niveis, globosis ovatisve, nucleatis, ca. 4 μ. diam.

Hab. in sterco canino putrescente et in foliis contiguis, pr. Oestrich Rhenogoviæ. — Cl. Fuckel l. c., enumerat quoque sed non describit: **Hyph. effusum** Fuck. [Fung. rhen. n. 241 sub *Illosporio roseo*] in thallo Physciæ et Parmeliæ et **Hyphod. sparsum** Fuck. [Fung. rhen. n. 239 sub *Illosp. aurantiaco*] in thallo plurium Lichenum. Præterea notat in utroque adesse mycelium.

ACREMONIUM Link — Sacc. Syll. IV, p. 89.

1. **Acremonium flexuosum** Peck 32 Rep. p. 44, t. I, f. 16-18 (icones non vidi). — Effusum, tenue, molle, lanatum, album, subinde flavido vel cremeo tinctum; hyphis ramosis, ramulis late divergentibus, passim oppositis, sursum tenuatis et flexuosis et apiculis alternantibus armatis; conidiis ovoideis vel ellipsoideis, 12-20 ≃ 7-12, hyalinis. 7140

Hab. in lignis dejectis, Griffins, Delaware Co. Amer. bor. — Affine videtur *A. albo* sed ramis flexuosis et spinulis alternis distinctum.

RHINOTRICHUM Corda. — Sacc. Syll. IV, p. 91.

1. **Rhinotrichum aureum** Cooke et Mass. Grev. XVIII, p. 27. — Late effusum, matricem ambiens, læte aureum; hyphis sterilibus repentibus, ramosis, tenuibus, septatis; fertilibus erectis, simplicibus v. dichotomis, septatis, 12-15 μ. cr., articulis ultimis obtuse papillatis; conidiis ovato-ellipsoideis, 18-20 ≃ 10-12, in capitula subglobosa apice congestis. 7141

Hab. in Paxillo putrescente, Epping Forest Britanniæ.

2. **Rhinotrichum muricatum** Ell. et Ev. Proc. Acad. Phil. 1891, p. 86. — Late effusum, tomentellum, argillaceo-griseum; hyphis prostratis, brunneis, remote septatis, ramosis; fertilibus copiosis, erectis, muricato-asperulis, 100-125 ≃ 10-12, sursum sensim tenuatis ubique conidia gerentibus; conidiis subellipticis, ferrugineo-brunneis, subinde inæquilateris, 7 ≃ 3. 7142

Hab. in corticibus dejectis, Adirondak Mts Amer. bor. (G. A. Rex). — Hyphæ fertiles sabulo conspersæ viderentur.

3. **Rhinotrichum gossypinum** Speg. Guar. I, p. 160. — Mycelio arachnoideo-effuso, tenuissimo, vix manifesto, albo; hyphis sterilibus repentibus, continuis, gracilibus, 2-3 μ. cr. laxe ramoso-intricatis, fertilibus erectis, hinc inde ex hyphis sterilibus densiuscule assur- 7143

gentibus, cylindraceo-conicis, breviusculis, 12-15 ≃ 1, rectis, continuis, hyalinis, apice acutis, levibus; conidiis acro-pleurogenis, densiuscule aggregatis, sessilibus, elliptico-limoniformibus, 2,5-3 ≃ 1,5-2, utrinque acutis v. apiculatis, hyalinis.

Hab. in acervulis Cercosporæ Caricæ, ad folia Caricæ Papayæ pr. Posta-cué Brasiliæ.

4. **Rhinotrichum niveum** Cooke et Mass. Grev. XVI, p. 10. — Cæspitulis niveis, velutinis; hyphis erectis simplicibus, septatis, conidiorum diametro angustioribus, sursum denticulis conicis conidiophoris asperatis; conidiis majusculis, ovoideo-ellipticis, continuis, hyalinis, 20-25 ≃ 10-12, basi apiculo minuto persistenti auctis. 7144

Hab. in ligno putri, Chiswick Britanniæ.

SPOROTRICHUM Link — Sacc. Syll. IV, p. 96.

1. **Sporotrichum Darutæanum** Roum. in Rev. Myc. 1886, p. 92. — Cæspitulis sparsis, aureis; hyphis sterilibus repentibus; fertilibus raris, erectis, non septatis, tortuosis, fulvis; conidiis acrogenis, hyalinis, parcis, minusculis, 2-2,5 ≃ 1-1,5. 7145

Hab. in cortice exsiccato Cinnamomi udo in insula Mauritii (A. Daruty).

2. **Sporotrichum læticolor** Cooke et Mass. Grev. XX, p. 38. — Effusum, demum stratum laxum pulvereum late aureum formans; hyphis procumbentibus, varie ramosis, septatis, 3-4 μ. diam.; conidiis elliptico-fusoideis, levibus, basi truncatis, copiosissimis, in ramulis brevibus lateralibus solitarie acrogenis, 8 ≃ 4. 7146

Hab. ad cortices, Halifax Britanniæ (Crossland).

3. **Sporotrichum fallax** Lib. Crypt. II, n. 187 (1832), Sacc. F. Lib. n. 234. — Mycelio effuso, fibrilloso-byssino; hyphis ramosis, densissime intricatis, septatis albis; conidiis creberrimis, minutissimis, 1,5 μ. diam., globosis, primo aureis, tum sulphureis, demum albis. 7147

Hab. in fagetis ad folia dejecta, truncos et radices herbarum muscorumque in Arduennis. — Habitus fere *Himantiæ*.

4. **Sporotrichum granuliferum** Karst. Hedw. 1890, p. 272. — Cæspitulis densis, pulvinatis v. granuliformibus confertis, subcrustaceis, albis, exiguis; hyphis tenerrimis, remote articulatis, 2-3 μ. cr.; conidiis copiosissimis, late ellipsoideis v. ovalibus, 1-2 mm. 7148

Hab. in ligno putri pineo ad Mustiala Fenniæ.

5. **Sporotrichum minutulum** Speg. — Syll. IV, p. 101 — var. **Araneæ** Brun. Champ. ajout. Saint. pag. 246. — Cæspitulis albis, minutis, 7149

subinde confluentibus; hyphis valde intertextis; conidiis subglobosis vel ovoideis, 3-4 ≃ 2-2,5, hyalinis.

Hab. ad corpus et crura Araneæ cujusdam, Saintes Galliæ.

6. **Sporotrichum parvulum** Pass. in Brun. Champ. nouv. VI, p. 4. — 7150
Cæspitulis parvis, albis; hyphis albis, numerosis, intermixtis, ramosis?, continuis; conidiis numerosis, minutissimis, globosis, hyalinis.

Hab. in Vespa Crabrone emortua, Fontcouverte prope Saintes Galliæ.

7. **Sporotrichum larvatum** Peck 32 Rep. pag. 44. — Cæspitulis con- 7151
fluentibus, densis, mollibus, dein pulverulentis albidis vel flavidis, matricem totam obducentibus; hyphis tenuissimis, simplicibus vel ramosis; conidiis copiosis, minutis, globosis, 2–3 μ. diam.

Hab. in larvis sub Alnis, Adirondack Mount. Amer. bor. — « An *Botryti Bassianæ* affinis species? »

8. **Sporotrichum Lecanii** Peck 44 Rep. pag. 25. — Effusum, album, 7152
pulvereum; hyphis tenuissimis, 2–2,5 μ. cr. procumbentibus, irregulariter ramosis, ramis suberectis, albis; conidiis minutis, hyalinis, oblongo-cylindraceis, 5-7 × 2,5–3.

Hab. in scutellis Lecanii speciei ad Magnoliam acuminatam, Salamanca Amer. bor.

9. **Sporotrichum muris** (Gluge et D'Udek.) Sacc. *Microsporum* Glu- 7153
ge et D'Udekem De quelq. paras. végét. p. 15-16, t. II, f. 3-4. — Effusum dense pelliculosum candidum, adhærens; hyphis filiformibus inæqualiter dichotomico-ramosis dense intricatis continuis, hyalinis 6 μ. cr. apice coniodophoris; conidiis globulosis, hyalinis, 6 μ. diam., levibus.

Hab. in facie muris cujusdam ab oculis ad nares, Bruxelles (J. Van Volxem). — Animal fungo affectum oculum et pilos partis invasæ jam amiserat.

10. **Sporotrichum peribebuyense** Speg. Guar. I, p. 159. — Cæspitu- 7154
lis hypophyllis, adnato-superficialibus, linearibus, sparsis vel hinc inde laxe aggregatis, majusculis, 1-5 mm. long., 0,5–1 mm. cr., pulvinatis, gossypino-tomentosulis, compactiusculis, albis vel pallidissime roseis; hyphis omnibus repentibus, dense intricato-ramosis, crassiusculis, 5-5,5 μ. cr., densiuscule septatis, sterigmatibus papilliformibus, sparsis, minutissimis hinc inde ornatis, hyalinis; conidiis globosis, levibus (an per ætatem ruguloso-asperulis?) majusculis, 6-8 μ. diam., nubiloso-guttulatis, hyalinis.

Hab. ad folia viva Setariæ sp. elatæ in montuosis Cordillera de Peribebuy Brasiliæ. — Habitus *Ramulariæ? roseæ* Speg.

11. **Sporotrichum nitens** (Pers.) Link Sp. Fung. I, p. 3, *Himantia* Pers. Myc. Eur. I, p. 91. — Effusum, pelliculosum, subtilissimum; hyphis densissime intricatis, albis; conidiis globosis, minutis. 7155

Hab. in foliis dejectis, Paris Galliæ (Persoon). — Folia obtegit instar pelliculæ tenerrimæ albæ, quæ colore albo inde nitent. « Sec. Fr. S. M. (index) esset mycelium; an potius *Hypochni* species? Cfr. Desm. Exs. n. 1541 ».

12. **Sporotrichum vile** Karst. in Hedw. 1891, p. 303. — Cæspitulis late effusis, tenuissimis, albidis; hyphæ tenerrimis, cito evanescentibus, circiter 2 μ. cr.; conidiis oblongatis, obtusiusculis, rectis, eguttulatis hyalinis, 4-7 ≃ 1-2. 7156

Hab. supra cæspites Cladosporii in caulibus Brassicæ Napi obvenientes ad Mustiala Fenniæ.

13. **Sporotrichum epigæum** Brun. Fragm. Myc. II, p. 11. — Cæspitulis albo-griseolis; hyphis intermixtis, numerosis, ramosis, gracillimis, albo-griseolis; conidiis globosis, concoloribus, 3 μ. diam. 7157

Hab. ad terram, Fouras prope Saintes Galliæ.

14. **Sporotrichum Peckii** Sacc. *Sporotrichum cinereum* Peck 43 Rep. pag. 29, nec Schulz. — Cæspitulis oblongis, effusis, pulverulentis, cinereis; hyphis tenuissimis, 3,5-4 μ. cr., ramosis, crispato-flexuosis, denticulatis; conidiis copiosis, globosis, 3-4 μ. diam. 7158

Hab. in ligno Piri Mali, Manor Amer. bor.

15. **Sporotrichum cinereum** Schulz. Bot. Centr. 1883, XV, p. 3. — Hyphis cinereis, ramosis, continuis, repentibus, intricatis; conidiis globosis, 1,5-2 μ. diam. 7159

Hab. in superficie atramenti ubi stratum cinereum format in Hungaria. — « Verisimiliter *Penicillii* forma ».

SPOROTRICHELLA Karst. Symb. XX, p. 96 (Etym. a *Sporotricho*). — Hyphæ vage ramosæ, articulatæ, subæquales, molles, subascendentes, læte coloratæ. Conidia subsolitaria, fusoideo-elongata, continua, hyalina. — Est quasi *Sporotrichum* fusisporum.

1. **Sporotrichella rosea** Karst. loc. cit. — Cæspitulis confertis, sæpe confluentibus, rotundatis, minutis, roseis, demum expallentibus; hyphis 3-6 μ. cr.; conidiis fusoideo-elongatis, utrinque acutis, rectis, continuis, eguttatis, hyalinis, 10-30 ≃ 3-4. 7160

Hab. in caulibus aridis Umbelliferarum in ditione mustialensi Fenniæ.

MONOSPORIUM Bon. — Sacc. Syll. IV, p. 113.

1. **Monosporium coprophilum** Cooke et Mass. Grev. XVI, pag. 10. — 7161
Candidum; cæspitulis subglobosis, demum confluentibus; hyphis intertextis, septatis; fertilibus brevibus, repetito dichotomis, ramis ascendentibus, sursum leniter tenuatis; conidiis ovoideis, continuis, hyalinis, intus granulosis, 12-15 ≃ 10.

Hab. in stercore, Kew London Britanniæ.

2. **Monosporium olivaceum** Cooke et Mass. Grev. XVI, pag. 78. — 7162
Late et plerumque dense effusum, olivaceum; hyphis intertextis, septatis, pallide olivaceis, fertilibus erectis, sursum parce ramosis, ramulis modo alternis, modo binatis; conidiis ovoideis, hyalinis, 6-8 ≃ 4.

Hab. in Corticio et in rami cortice proximo, Carlisle Britanniæ (Doct. Carlyle).

3. **Monosporium crustaceum** Karst. Fragm. Myc. Fenn. XXII, p. 2. 7163
— Cæspitulis late effusis, floccosis, cinereis; hyphis e basi simplici dichotomo-ramosis, inferne dilutissime fuligineis (sub lente), superne hyalinis, subtilissime asperulis, usque ad 6 μ. cr., ramulis hyalinis acutis; conidiis solitariis vel raro binis acrogenis, ovoideis vel ovalibus, eguttulatis, hyalinis, 8-10 ≃ 5-6.

Hab. supra lignum vetustum Aceris platanoidis in horto mustialensi Fenniæ (Onni Karsten).

LANGLOISULA Ell. et Everh. Journ. Myc. 1889, p. 68 (Etym. a rev. A. B. Langlois gallico, mycologiæ boreali-americanæ strenuo exploratore). — Hyphæ omnes subprostratæ mox repetito dichotome ramosæ intricatæ, ramulis ultimis sat brevibus subulato-spiniformibus. Conidia e globoso ovoidea, continua læticoloria, in spinulis solitarie acrogena.

1. **Langloisula spinosa** Ell. et Ever. Journ. Mycol. 1889, pag. 68, 7164
tab. X, fig. 1-2. — Hyphis prostratis, flavis, 2-3 μ. diam., repetito dichotomis, ramis ultimis brevibus, subulatis vel spiniformibus, stratum tenuem, dilute flavum, demum fulvum efformantibus; conidiis globosis vel ovoideis, flavis, 12-14 μ. diam., in stratum laxum congestis.

Hab. in basi culmorum Andropogonis muricati, St. Martinsville Louisianæ Amer. bor. — Habitus omnino *Gonytrichi fulvi.*

BOTRYTIS Mich. — Sacc. Syll. IV, p. 116.

1. **Botrytis Croci** Cooke et Mass. Grev. XVI, p. 10. — Cæspitulis minutis atro-fumosis, passim confluentibus et effusis; hyphis crassiusculis, dense septatis, sursum attenuatis ramulosisque, pallide olivaceis, superne hyalinis; conidiis ellipsoideis, continuis, hyalinis, 15–18 ≃ 8–10, apice hypharum et ramulorum in capitula minuta 3-8-aggregatis. 7165

   Hab. in foliis emortuis Croci, Kew London Britanniæ.

2. **Botrytis corolligena** Cooke et Mass. Grev. XVI, pag. 10. — Sparsa, alba; hyphis erectis, septatis, superne brevissime ramosis; conidiis ovoideis, continuis, hyalinis, 25 ≃ 15-18, in capitula subglobosa minuta congestis. 7166

   Hab. in floribus Calceolariæ cultæ, Kew London Britanniæ.

3. **Botrytis parasitica** Cav. App. Pat. Veg. p. 10, t. VI, f. 1-4. — Hyphis cinereis, sparsis, erectis, articulo basali inflato; conidiis ovatis, magnis, breviter pedicellatis, in ramulis minutis, capitatis, umbellatim dispositis, hyalinis vel dilute cinereis, 16–20 ≃ 10–13. 7167

   Hab. in foliis, scapo et floribus Tulipæ Gesnerianæ, quam vexat, Pavia Italiæ.

4. **Botrytis gonatobotryoides** Cooke et Mass Grev. XVI, pag. 79. — Albida; hyphis gregatis sed non fasciculatis, erectis, simplicibus vel furcatis, septatis, pallide olivaceis, apicibus conidiophoris non inflatis sed cristulatis; conidiis ellipsoideis, continuis, hyalinis, 15 ≃ 7-8, in glomerulos apicales et pleurogenos subglobosos congestis. 7168

   Hab. in foliis emortuis Hyperici calycini, Kew Britanniæ.

5. **Botrytis Douglasii** Tubeuf Beitr. Baumkr. p. 4. t. I et Bot. Centr. 1889, III, p. 152. — Mycelio endogeno, fuligineo, septato 14 μ. cr.; hyphis fertilibus subfasciculatis fuscidulis erectis, sursum dendroideo-ramosis, subcontinuis; ramulis patentibus, apicibus conidiophoris dilatatis denticulatisque; conidiis botryoideo-congestis ovoideis, 9 ≃ 6, subhyalinis. 7169

   Hab. in foliis Abietis Douglasii in Germania cultæ. — Folia et ramuli juniores, fungo correpti, arescunt et tandem emoriuntur. Sclerotia discoidea, nigra in foliis a mycelio quoque generantur.

6. **Botrytis brunneola** Rabh. Herb. Myc. 771, Grev. XVII, p. 68. — Cæspitulis velutinis, effusis, olivaceo-fuscis; hyphis erectis, subsimplicibus, fuscis; ramis verrucæformibus vel elongatis; conidiis 7170

oblongis vel ovoideis, hyalinis, e verrucis innovantibus, episporio pallide colorato, 8-10 ≃ 5-6.

Hab. in capitulis (cujus?) humi jacentibus, Doemitz.

7. **Botrytis atro-fumosa** Cooke et Ell. Grev. XVII, p. 68. — Effusa, indeterminata, atro-fumosa; hyphis tenuibus, gracilibus, sparse furcatis, septatis, subhyalinis; conidiis profusis, agglomeratis, subglobosis, continuis, fuscis, 5-6 ≃ 4. 7171

Hab. in cortice et ligno Quercus in Carolina inf. et New Jersey Amer. bor. (RAVENEL, ELLIS).

8. **Botrytis laxissima** Karst. in Hedw. 1891, p. 299. — Cæspitulis effusis, laxissimis, farinosis albis; hyphis fertilibus ascendentibus, septatis, dichotome ramosis, 9-12 μ. crassis, ramulis brevibus, apice, 15-22 μ. crassis subgloboso-inflatis, levibus; conidiis sphæroideis, levibus, sessilibus, 7-9 μ. diam. 7172

Hab. supra terram humosam corporaque varia putrida in ditione mustialensi Fenniæ.

9. **Botrytis longibrachiata** Oud. Microm. I, p. 7, t. I. — Candidissima, sparsa, neutiquam cæspitosa, 1,5-2 mm. alt.; mycelio repente, ramoso, articulato; hyphis fertilibus verticalibus, hyalinis, articulatis, ramis numerosissimis, patentibus, apice inflatis et capitulato-globosis præditis; conidiis numerosissimis, hyalinis, ovalibus, 4,5-5,5 ≃ 2,5. 7173

Hab. in pagina superiore foliorum subexsiccatis Curcumæ rubricaulis in horto botanico Amsterdam Nederlandiæ. — E sect. *Phymatotrichi.*

10. **Botrytis compacta** (Pat.) Sacc. *Phymatotrichum compactum* Pat. Bull. Soc. Myc. 1891, p. 182, t. XII, f. III. — Velutina, tuberculiformis vel irregulariter effusa; hyphis sterilibus repentibus, septatis, contortis, asperulis, olivaceo-brunneis, 2 μ. cr., fertilibus concoloribus erectis, asperulis, 5-7 μ. cr., pyramidato-ramosis, ramulis 2-4 verticillatis, hyalinis ovato-oblongis, apice tenuiter capitatis denticulatisque; conidiis ovoideis, fuligineis, 5 ≃ 3, inferne truncatis. 7174

Hab. in cortice Eucalypti, Quito Amer. merid.

11. **Botrytis griseo-lilacina** E. et E. Journ. Myc. 1888, pag. 45. — Hyphis sterilibus prostratis, brunneis, intricato-ramosis, asperulis, 3-4 μ. diam., stratum continuum, griseo-lilacinum, 0,5-2 cm. lat., margine definito fimbriatulo, pallido; hyphis fertilibus erectis, pallidis, simplicibus vel parce ramosis, passim sursum subundulatis; conidiis acrogenis, ellipsoideis, subhyalinis, 5-9 ≃ 3-4. 7175

Hab. in cortice Quercus emortuæ, Concordia Mo. Amer. bor. (C. H. Demetrio).

12. **Botrytis fasciculata** E. et E. Journ. Myc. 1888, p. 105. — Confertim sparsa, fasciculato-plumiformis, pallide lilacina, 1 mm. alta; hyphis fasciculatis, di-trichotomis, ramulis cylindraceis erectis, strictis, subhyalinis, sursum passim leviter denticulatis; conidiis ellipsoideis v. ovato-ellipsoideis, hyalinis, 4-5 ≃ 3. 7176

Hab. in truncis dejectis udis, Louisiana Amer. bor. (Langlois).

13. **Botrytis tephroidea** Sacc. et Ell. Journ. of Myc. 1888, p. 105. — Cinerea, tenuis, effusa; hyphis parce erecto-ramosis, rarius aspe rulis; conidiis apiculatis, oblongo-ellipticis, 8-9 ≃ 4-5. 7177

Hab. in caulibus dejectis Ambrosiæ trifidæ et ad ligna putrida, Pointe à la Hache La. Amer. bor. (Langlois). — Ad *B. geniculatam* accedit, sed distincta.

14. **Botrytis sphærospora** (Ces.) Sacc. *Nodulisporium* Ces. Bot. Zeit. 1855, pag. 300. — Peraffinis *B. ochraceæ*, a qua differt conidiis sphæricis nec ovoideis. 7178

Hab. sub cortice putri Castaneæ in Ital. bor.

15. **Botrytis albido-cæsia** Boud. Bull. Soc. myc. 1891, pag. 81, t. V, fig. 1. — Effusa, laxa, albido-cæsia; hyphis sterilibus varie ramosis, septatis, repentibus; fertilibus erectis, haud rigidis, 1-1,5 mm. altis, parce septatis, intus granulosis, supra divisis, apicibus vix denticulatis; conidiis globosis majusculis, 10-12 μ. diam., intus granulosis, capitula rotundata, 25-35 μ. cr. formantibus. 7179

Hab. ad ligna et cortices circa Paris Galliæ. — Affinis *B. piluliferæ*.

16. **Botrytis hypophylla** Ell. et Kell. Journ. Myc. 1889, p. 143. — Cæspitulis parvis, albis, demum supra folii superficiem omnino confluentibus et tomentum album efformantibus; hyphis repentibus laxe intertextis, ramosis, fertilibus erectis, 30-150 ≃ 2,5-3, continuis, hyalinis, supra subverticillatim vel raro dichotomice ramosis, apicibus conidiophoris muricato-lobatis; conidiis globosis, 3,5-4,5. 7180

Hab. in foliis vivis Teucrii canadensis, sociâ *Cercosporâ ferrugineâ*, Manhattan, Kansas Amer. bor. (M. A. Carleton).

17. **Botrytis cinereo-glauca** Ell. et Kell. Journ. Myc. 1889, p. 143. — Stratum cinereum vel subglaucum, continuum, subcorticalem efformans; hyphis repentibus ramosis, laxe intertextis, 2-2,5 μ. cr., septatis, subinde supra septa leniter inflatis, ex hyalino subfuscis; hyphis fertilibus erectis, 75-100 ≃ 1,5-2,5, hyalinis vel basi subfuscis, primo parce demumque copiose et irregulariter ramosis, ra- 7181

mis vulgo rectis, sursum subattenuatis; conidiis in massas parvas congestis, ovato-oblongis, hyalinis, 3-5 ≃ $1^3/_4$-$2^1/_4$.

Hab. in ligno corticato trunci putris Ulmi americanæ, Manhattan, Kansas Amer. bor. (KELLERMAN et SWINGLE).

18. **Botrytis rhinotrichoides** Sacc. et Ell. Journ. of Myc. 1888, p. 105. 7182
— Hyphis subsimplicibus, eximie verticillato-spiculoso-sporigeris; conidiis candidis, subglobosis, 4 ≃ $3^1/_2$-4.

Hab. parasitice in Stemonite vetusta ad Sphagnum, Newfield N. J. Amer. bor. — Ad genus *Rhinotrichum* valde accedit.

19. **Botrytis campsotricha** Sacc. Syll. IV, pag. 117 — var. **fennica** 7183
Karst. Symb. Myc. Fenn. XXV, p. 24. — Cæspitulis pulvinatis, minutis, confluentibus, albis; hyphis parce septulatis, ramosis, 4-6 μ. cr., ramis vulgo rectis; conidiis ellipsoideis v. ovalibus v. suboblongis, eguttulatis, hyalinis, 5-8 ≃ 2-3,5.

Hab. ad lignum Pini silvestris alicubi in Fennia. — Nudo oculo lignum videtur farina adspersum.

20. **Botrytis sporotrichoides** Karst. Hedw. 1890, p. 272. — Late ef- 7184
fusa, alba, siccitate canescens; hyphis vage ramosis, articulatis, hyalinis vel hyalino-fuligineis, 11-22 μ. cr., ramis patentibus, fertilibus erectis, apice obtusiusculis; conidiis sphæroideis, hyalinis, eguttulatis, 5-7 μ. diam.

Hab. in asseribus Pini vetustis ad Mustiala Fenniæ.

21. **Botrytis virella** Fr. — Syll. IV, p. 127 — var. **æruginea-glauca** 7185
Karst. in Hedw. 1891, p. 248. — Late effusa, tenuis, pulveracea, æruginea-glauca; hyphis tenerrimis, articulatis, ramosis, hyalinis; conidiis sphæroideis, raro ovoideis, levibus, conglomeratis, copiosissimis, circ. 3 μ. diam.

Hab. in ligno putrescente trunci stantis Betulæ prope Mustiala Fenniæ. — An *Botrytis æruginosa* Schum.?

22. **Botrytis funicola** E. et E. Journ. Myc. 1888, p. 124. — Hyphis 7186
subolivaceis, simplicibus v. subtus parce ramosis, continuis, 20-30 ≃ 2-2,5, stratum atro-olivaceum efformans; conidiis acrogenis, solitariis?, olivaceis, ovato-ellipsoideis, 1-guttatis, 3-4 ≃ 2-2,5.

Hab. in funi vetusto ad terram dejecto, Newfield, New Jersey Amer. bor. — *B. atro-viridi* affinis.

23. **Botrytis terrestris** Brun. Fragm. myc. II, 1887, p. 11. — Cæ- 7187
spitulis albis v. albidis, hyphis albis, septatis, intermixtis, ramosis, ramis superioribus brevioribus et subclavato-incrassatis; conidiis hyalinis, minutissimis, globosis.

Hab. ad terram, Fouras pr. Saintes Galliæ.

24. **Botrytis Brongniartii** Sacc. *Botrytis spec. à spores ovales* Brongn. 7188
Champ. paras. des criquets pag. 5-6. — Mycelio tenuissimo repente septato, granuloso, albo velutino; hyphis fertilibus erectis, apice glomerulis conidiorum terminatis, conidiis copiosissime ovoideis, 4 ∞ 2,5, hyalinis in basidiis brevibus, piriformibus acrogenis, tandem flavido-pulverulentis.

Hab. in Acridio peregrino, quod necat, in Algeria. — ***B. Delacroixii** Sacc., *Botrytis sp. à spores rondes* Brongn. loc. cit. Ut præcedens sed conidiis constanter globosis 2,5 μ. diam. In iisdem Acridiis, quæ pariter necat, Constantine Algeriæ.

TOLYPOMYRIA Preuss — Sacc. Syll. IV, p. 137.

1. **Tolypomyria fungicola** Karst. Symb. Myc. Fenn. XXV, p. 25. — 7189
Cæspitulis effusis vel subcircularibus, tomentosulis, albis; hyphis vage ramosis, flexuosis, articulatis, intricatis, 8-10 μ. cr.; glomerulis rotundatis, mucosis; conidiis ellipsoideis vel ovalibus, subinde sphæroideo-ellipsoideis, hyalinis 2-4 ∞ 1-2.

Hab. in Polysticto vélutino putrescente in parœcia Tyrvis Fenniæ.

OVULARIA Sacc. Syll. IV, p. 139.

1. **Ovularia Malorum** Cooke in Grevillea XIV, p. 139. — Hypophylla; 7190
maculis effusis, confluentibus, albidis, subfarinosis; hyphis brevibus; conidiis ellipticis, hyalinis, 10-12 ∞ 4-5.

Hab. in foliis vivis, petiolis, etc. ramorum juniorum Piri, New Zealand Austral. (Kirk).

2. **Ovularia Vitis** Rich. Cat. Champ. Marn. n. 1899. — Basidiis bre- 7191
vibus; conidiis fusoideis.

Hab. in foliis Vitis exsiccatis, St.-Amand Galliæ.

3. **Ovularia necans** (Pass.) Sacc. *Ramularia* Pass. in Thuem. M. U. 7192
n. 1669, Diagn. p. 12. — Conidiis globosis, basi vix acutis, matrici v. hyphis brevissimis adfixis, tandem in massam pulveream acervatis, hyalinis, 7,5-12 μ. diam.

Hab. in pagina superiore foliorum juvenilium Cydoniæ vulgaris, quæ statim enecat, Pavia Italiæ.

4. **Ovularia Maclurae** Ell. et Langl. Journ. Myc. 1890, p. 35. — Hypo- 7193
phylla, in maculis ferrugineo-brunneis, rotundis 3-5 mm. diam.; hyphis sterilibus ramosis, fertilibus, erectis subsimplicibus vel supra parce ramosis, tenuibus, continuis, hyalinis, 15-22 ∞ 2,5-3; conidiis subcatenulatis, ovoideis, hyalinis, continuis, 6-9 ∞ 2,5-3.

Hab. in foliis viventibus Macluræ auranticæ, St. Martinsville La. Amer. bor. (LANGLOIS).

5. **Ovularia compacta** Ell. et Ever. Journ. Mycol. 1889, pag. 68. — 7194
Maculis amphigenis, subellipsoideis, 1 cm. diam. dilute brunneis v. subalutaceis; cæspitulis densis; hyphis simplicibus, continuis, 15–25 ≃ 4, supra leniter denticulatis v. integris; conidiis acrogenis, ovatis, 12–15 ≃ 5–6.

Hab. in foliis viventibus Macrorrhynchi troximoidis, Colorado Amer. bor. (DEMETRIO).

6. **Ovularia rigidula** G. Delacroix Bull. Soc. Myc. Fr. 1890, p. 181, 7195
t. XX, fig. VI. — Cæspitulis epiphyllis, floccosis, niveis in macula amphigena ochraceo-grisea; hyphis conidiophoris hyalinis, granulatis, fasciculatis, simplicibus, obscuris uni- vel bi- septatis rigidis flexuosis, apice attenuatis, 60 ≃ 5; conidiis ovoideis vel oblongo-piriformibus, deorsum attenuatis, 21 ≃ 6.

Hab. in foliis vivis Polygoni avicularis, Vincennes prope Parisios Galliæ. — Differt a *O. Bistortæ* et *O. obliqua* forma et dimensionibus conidiorum.

7. **Ovularia simplex** (Pass.) Sacc. *Ramularia* Pass. Erb. critt. it. II, 7196
n. 1181 (1882). — Cæspitulis hypophyllis, albidis, pulvereis, mox evanidis, in macula livido-fusca, venis limitata; hyphis subfasciculatis erectis, subramosis, continuis, flexuosis, ad apicem nodulosis, conidio multoties longioribus; conidiis ellipticis simplicibus hyalinis, 16–22 ≃ 10–12.

Hab. in foliis Ranunculi velutini in horto botanico, Parma. — «An diversa ab *Ovularia decipiente?*»

8. **Ovularia Carletoni** Ell. et Kell. Journ. Myc. 1889, pag. 144. — 7197
Cæspitulis hypophyllis, a folii venulis plus minus distincte limitatis, 2–4 mm. diam., pallide flavidis; epiphyllo maculis pallide flavidis, indefinitis notato; hyphis hyalinis, 25–35 ≃ 4–5, ramulis conidiophoris lateralibus, gemmuliformibus præditis, in massas minutas tuberculiformes laxe aggregatis; conidiis oblongo-ellipsoideis, continuis, hyalinis, 12–15 ≃ 6–7. 7-9 × 15-23, F. Col. nro. 1835

Hab. in foliis Lactucæ, Mitchell County, Kansas Amer. bor. (M. A. CARLETON).

9. **Ovularia Inulæ** Sacc. — Syll. IV, p. 141. — forma **major** Brun. 7198
Misc. Myc. II, p. 46. — Maculis angulosis v. irregularibus, purpurascentibus; conidiis oblongis v. ovoideo-oblongis, sæpe utrinque rotundatis, intus granulosis, hyalinis, 18–20 ≃ 4–4,5.

Hab. in foliis Inulæ dysentericæ, Fouras Galliæ.

10. **Ovularia Brassicæ** Bresad. et Allesch. in Allesch. et Schnabl F. bav. n. 195. — Maculis amphigenis, subcircularibus vel irregularibus sæpe confluentibus, marginatis, albidis; hyphis superficialibus, filiformibus flexuosis, hyalinis, 60-80 ≃ 2-3; conidiis ovatis, hyalinis, 6-8 ≃ 3-3. 7199

Hab. in foliis vivis Brassicæ Napi γ. esculentæ, Oberammergau Bavariæ super. (Allescher).

11. **Ovularia Viciæ** (Frank) Sacc. *Ramularia Viciæ* Frank Krankh. Pfl. p. 600. — Maculis brunnescentibus; hyphis fertilibus flexuose assurgentibus, simplicibus, supra denticulatis; conidiis subsphæricis, basi papillatis, continuis, hyalinis. 7200

Hab. in foliis Viciæ tenuifoliæ in Germania.

12. **Ovularia alpina** C. Mass. Contr. Mic. Ver. p. 107, t. 4. f. 25. — Cæspitulis hypophyllis, confluenti-effusis, cinereo-albis, maculas rubiginoso-fuscas in pagina superiore foliorum efficientibus; hyphis fertilibus rectis, dense fasciculatis, subsimplicibus, apice alterne denticulatis; conidiis pleuro acrogenis, hyalinis, raro breviter catenulatis, subovatis vel oblongo-ellipticis, 10-16 ≃ 3-7, inferne apiculatis. 7201

Hab. in foliis Alchemillæ alpinæ in rupibus M. Zevola Agri veronensis. — Ad *Ramulariam* vergit.

13. **Ovularia Stellariæ** (Rabenh.) Sacc. *Ramularia* Rabenh. F. Eur. n. 1466. — Cæspitulis minutis hypophyllis in maculis demum arescentibus; hyphis cylindraceis, tenuibus, hyalinis, subsimplicibus subdenticulatis; conidiis ovoideo-oblongis 10-12 ≃ 6, continuis, hyalinis. 7202

Hab. in foliis subvivis Stellariæ nemorum et Malachii (?) in Bavaria et Franconia. — An sit status infans *Isariopsidis albo-rosellæ* dubium adest.

14. **Ovularia Betonicæ** C. Mass. Contr. Mic. Ver. p. 108. — Maculis internerviis, angulosis, fuscis, sæpe confluentibus, cæspitulis vulgo hypophyllis, candidis; hyphis fertilibus fasciculatis, continuis, simplicibus, 20-60 ≃ 4-6, superne subsinuosis, alterne denticuligeris; conidiis oblongis subobovatisve, subgranuloso-farctis, utrinque rotundato-obtusis, 9-27 ≃ 9-12. 7203

Hab. in foliis vivis Betonicæ Alopecuri in pratis montanis pr. Campofontana Verona. — Mensura conidiorum et hyphis fertilibus simplicibus sat distincta ab *Ovularia ovata*.

15. **Ovularia Bartsiæ** Rostr. Bidr. Ascom. Dovre p. 13. — Cæspitulis hypophyllis, albidis; hyphis sublongis, fasciculatis, flexuosis; conidiis oblongis, 15-20 ≃ 6-8. 7204

Hab. in foliis vivis Bartsiæ alpinæ, Dovre Norvegiæ (Blytt et Rostrup).

16. **Ovularia Alismatis** Passer. Diagn. F. N. IV, n. 13. — Maculis 7205
amphigenis fuscis initio discoideis dein varie expansis et confluentibus; cæspitulis hypophyllis maculas velo araneoso tegentibus; conidiis elongato-clavulatis, hyalinis, intus varie granulosis, 12–15 × 3; hyphis tenuibus, simplicibus vel parce ramosis (?).

Hab. in foliis Alismatis Plantaginis alla Magnana presso Fornovo, prov. Parma. — *Peronospora interstitialis* B. et Br., Sacc. Syll. VIII, 1, p. 259, recte monente Trail, est *Ovularia*, verisimiliter ab *O. corcellensi* vix separanda. *Oidium Lamii* Rabenh., Flora 1853, p. 204, probabiliter est *Ovularia Lamii*.

SEPEDONIUM Link. — Sacc. Syll. IV, p. 146.

1. **Sepedonium aureo-fulvum** Cooke et Mass. Grev. XVI, p. 76. — Hy 7206
phis repentibus, ramosis; conidiis globosis, profusis, pulvere aureo-fulvo Polyporos conspergentibus, episporio tenui, minute asperulo 9–10 μ. diam.

Hab. in Polyporis, Mordialloc, Victoria Australiæ (French).

2. **Sepedonium brunneum** Peck 32 Rep. p. 44. — Effusum, pulveru- 7207
lentum; conidiis globosis, asperulis, 20–25 μ. diam., tabacino-brunneis.

Hab. in fungis putridis Ganservoort Amer. bor.

3. **Sepedonium Fieberi** Bomm. Rouss. Sacc. Contr. Myc. Belg. IV, 7208
p. 94. — Hyphis hyalinis, repentibus, valde ramosis, parce septatis, passim asperulis, 1,5–3,5 μ. cr.; conidiis sphæricis, initio levibus, dein asperulis, 10 μ. diam., demum verrucis conicis prominentibus 3–3,5 μ. altis, asperatis, ex hyalino brunneolis, 27 μ. diam., verrucis demum dilabentibus et cicatrices 5 μ. diam. relinquentibus.

Hab. in excrementis murinis, parasiticum in Chætomio Fieberi, Watermael Belgii.

4. **Sepedonium latericium** Bres. Bull. Soc. bot. it. 1892, p. 197. — 7209
Hyphis effusis, filiformibus, vage ramulosis, 4–5 μ. cr., septatis, maculas latericias efformantibus; conidiis globosis, muriculatis, pallide roseis, 6 μ. diam.

Hab. ad terram, Cascine prope Firenze (U. Martelli).

MONOPODIUM G. Delacr. Bull. Soc. Myc. 1890 (Etym. *monos* unus et *pous podos* pes). — Hyphæ hyalinæ repentes. Conidia continua,

globulosa vel obovata, fuscidula, in apice ramulorum in sympodium unilaterale dispositorum acrogena, levia.

1. **Monopodium Uredopsis** Delacr. Bull. Soc. Myc. VI (1890), p. 99, t. XV, f. V. — Sparsum; hyphis hyalinis, granulosis, ramulis (ex icone) utrinque tenuatis; conidiis subglobosis, 25 ≃ 20, brunneolis, episporio crassiusculo, levi. 7210

Hab. in seminibus Pisi sativi loco udo tepidoque germinantibus in laboratorio, Paris Galliæ.

CHÆTOCONIDIUM Zukal Neue Ascom. p. 9, t. I, f. 7 (Etym. *chæte* seta et *conidium*). — Hyphæ copiosæ ramosæ. Conidia intercalaria, in quoque ramulo nunc solitaria, nunc bi-terna, terminalia apice setulam cuspidatam septatam, hyphæ coniodiophoræ subconformem gerentia, globosa, magna, hyalina, exosporio verrucoso, crassissimo donata.

1. **Chætoconidium arachnoideum** Zukal Neue Ascom. p. 9, t. I, f. 7. — Mycelio laxo, albo, septato, copiose ramoso, arachnoideo, vulgo 1 cm. alt., 5-6 cm. diam. ex hyphis 5-6 μ. cr. formato; conidiis intercalaribus, in quoque ramulo solitariis v. bi- ternis, globosis, hyalinis, 26-30 μ. diam., terminalibus setula tenui, acutissima rigida septata præditis, exosporio crassissimo, verrucoso. 7211

Hab. in extracto Liebig diluto, Wien Austriæ — Hypharum articuli, conidiis proximi, sunt incrassati et saturatiores.

STEPHANOMA Wallr. — Syll. IV, p. 753. — Cum (præeuntibus cl. Corda Ic. VI, p. 3 et Delacroix Bull. Soc. Myc. 1891, pag. 113, tab. VIII, f. *m*) sporodochium desit, seu a matrice formatum sit, fungillus a Tubercularіaceis ad Mucedineas prope *Asterophoram* transferendum est. Conidia, teste Delacroix, sunt 30 ≃ 25; subinde hyphæ apex in *Verticillium* abit. Habitat quoque in *Peziza hemisphærica* prope Parisios.

Trib. 6. Verticillieæ Sacc.

PACHYBASIUM Sacc. — Syll. IV, p. 149.

1. **Pachybasium Tilleti** (Desm.) Oudem. Contr. Myc. Pays-bas XI, p. 36. Ita nominanda, teste Oud. loc. cit., *Botrytis Tilletii* Desm. — Syll. IV, p. 128. — Quæ nascitur quoque ad Hypna pr. Harlem Nederlandiæ (Heinsius) et præbet basidia ampulliformia 7 μ cr. et conidia 3,5-4,7. Teste ipso cl. Oudem. Contr. XIII, p. 59 etiam

Verticillium pyramidale Bon. — Syll. IV, p. 157 — ob basidia ampulliformia *Pach. pyramidale* (Bon.) Oud. est dicendum.

VERTICILLIUM Nees — Sacc. Syll. IV, p. 150.

1. **Verticillium fimeti** Oud. Aanw. IX-X, p. 47. — Laxe gregarium, niveum; hyphis mycelii repentibus, fertilibus paucis assurgentibus, filiformibus, $^{7}/_{10}$-$^{8}/_{10}$ mm. altis, 9-10 μ. crassis, 4-5-septatis, verticillatim ramosis; verticillis primariis tribus, singulis ramis ternis, ramis primi imo secundi ordinis sua vice verticillis ramorum ternatorum onustis; conidiis fere ovalibus, $1^{2}/_{3}$-2, hyalinis. 7212

   Hab. in fimo Cuniculorum in Hollandia.

2. **Verticillium dichotomum** E. et E. Journ. Myc. 1888, p. 105. — Niveum, cæspitulosum, sparsum; hyphis fertilibus erectis, 70-80 ≈ 3-4, sursum subverticillatim v. sæpius dichotome ramosis, ramis rectis septatis, acutatis, 20 ≈ 3, apice conidia oblongo-clavata, continua, hyalina, 6-12 ≈ 2-3, solitaria gerentibus. 7213

   Hab. in caulibus Trifolii pratensis, Newfield N. Y. Americæ borealis.

3. **Verticillium ampelinum** C. et Mass. Grev. XVI, p. 79. — Album, cæspitosum; hyphis erectis, parce ramosis, ramulis ultimis plerumque ternatis, ad apicem attenuatis, septatis; conidiis ellipsoideis, hyalinis, continuis, 10 ≈ 4. 7214

   Hab. in sarmentis Vitis viniferæ, Kew London Britanniæ.

4. **Verticillium? lichenicolum** Speg. F. Puigg. n. 454. — Cæspitulis minutis albis gossypino-compactiusculis, gregariis sæpeque confluentibus globuloso-difformibus 250-400 μ. diam.; hyphis primariis erectis 120-200 ≈ 4-5 septulatis, hyalinis, alterne ramosis; ramulis solitariis vel geminatis 30-60 ≈ 3 divaricatulis semel vel bis dichotomis; ramulis apice 3 sterigmatibus subampulluliformibus 7-8 ≈ 3 coronatis; conidiis in sterigmatibus acrogenis solitariis, ellipsoideo-obovatis 4-5 ≈ 2,5, continuis hyalinis. 7215

   Hab. in margine apotheciorum Physciæ et Peltigeræ cujusdam in Brasilia.

5. **Verticillium phyllostictoides** Speg. F. Guar. II, n. 182. — Maculis determinatis orbicularibus, minutis 0,5-2 mm. diam., candidis vel albo-pallescentibus, zona latissima purpurascente cinctis; cæspitulis epiphyllis solitariis vel 3-4-aggregatis, subconfluentibus, erumpenti-superficialibus minutis 150-300 μ. diam., candidis, compactiusculis, pulvinulato-difformibus; hyphis e parenchymate foliorum enatis erectis, cylindraceis, continuis, breviusculis, gracilibus, 25-40 7216

⌀ 3-4 ad tertium superum pluries bi- v. trichotomis, ramulis ultimis phialiformibus 10 ≃ 3, hyalinis; conidiis ellipticis utrinque acutiuscule rotundatis rectis vel subinæquilateralibus, 5-7 ≃ 2-3, hyalinis in sterigmatibus acrogenis (an catenulatis?).

Hab. ad folia languida Pothi pinnatifidæ in silvis prope Guarapi Brasiliæ.

6. **Verticillium? enecans** Speg. F. Puigg. n. 455. — Candidum, tenue; hyphis gracilibus 3-4 μ. cr., subcontinuis, dense gessypinulo-intertextis totam matricem vestientibus, basi repentibus, antice subexsurgentibus alterni-ramosis, hyalinis; ramulis breviusculis 50–80 ⌀ 3 divaricatulis continuis; sterigmatibus 3–9 in apice ramulorum verticillatis monosporis; conidiis ex obovato ellipsoideis 4-5 ≃ 2 sæpe grosse 2-guttulatis, continuis, hyalinis. 7217

Hab. in Agarico quodam pusillo ad corticem indeterminatum prope Apiahy Brasiliæ.

7. **Verticillium Croci** Oudem. Contr. Myc. XI, pag. 38. — Albidum; hyphis primariis septatis, sursum verticilla ramorum duo v. tria gerentibus, ramis subinde iterum verticillato-ramulosis; basidiis elongatis sursum valde tenuatis, monosporis; conidiis ellipsoideis 2-4,6 μ. long. 7218

Hab. in tuberculis putrescentibus Croci verni, Harlem Nederlandiæ (Doct. J. A. Wakker).

8. **Verticillium Aphidis** Bäuml. Crypt. Presb. p. 31. — Hyphis sterilibus repentibus, circ. 10 μ. cr., fertilibus erectis, hyalinis, verticillato-ramosis, ramulis ternatis vel quaternis, 16-24 ≃ 3-4, sursum acutis; conidiis acrogenis, solitariis, 6–9 μ. diam., hyalinis vel hyalino-flavicantibus. 7219

Hab. in cadaveribus Aphidis sub Thuja occidentali, Pressburg Hungariæ.

9. **Verticillium sporotrichoides** Sacc. sp. nov. — Effusum, byssinum, ochraceum, demum senio fusco-olivaceum; hyphis sterilibus copiosis, prælongis, parce ramosis, repentibus; fertilibus assurgentibus longe vage ramosis, septulatis, 4-5 μ. cr., ramis simpliciter spicato-ramulosis; ramulis verticillato- ternis vel quaternis, brevibus, crassiusculis, asperulis, apice obtuse tenuatis; conidiis solitarie acrogenis, e globoso ellipsoideis, 5-6 ≃ 4, ochraceis. 7220

Hab. in cortice interiore Oleæ europææ, S. Remo Liguriæ (Panizzi). — Affine, ut videtur, *V. crasso*, et ob ramos primarios vagos ad *Sporotrichum* accedit.

10. **Verticillium puniceum** Cooke et Ellis Grev. XVII, p. 68. — Pu- 7221

niceum, subcompactum; cæspitulis pulvinatis, ellipticis vel confluentibus; hyphis tenuibus, septatis, ramosis; ramulis verticillatis, brevibus, roseo-tinctis; conidiis ellipticis, minutis, continuis, profusis, hyalinis, 4 ≃ 2.

Hab. in ligno Quercus, Newfield N. J. Amer. bor. (Ellis).

11. **Verticillium albo-atrum** Reinke et Berth. Zersetz. Kartoff. p. 75, t. VIII et IX. — Mycelio endogeno effuso, fuscescente; hyphis fertilibus emergentibus, erectis, simplicibus, fuscis, sursum pallidioribus, ramoso-verticillatis, parce septatis; ramis ternis-quinis basi incrassatis ad apicem tenuatis ascendentibus; conidiis ovato-oblongis continuis, ex hyalino fuscellis, 6-12 ≃ 3. 7222

Hab. in caulibus Solani tuberosi subvivis in Germania.

12. **Verticillium Vizei** Berk. in Vize Microf. n. 247. — In frondibus Aspidii aculeati Forden. Exemplaria orig. a me observata præbent formam mycelio paullo evolutiore *Oosporæ perpusillæ* Sacc.

CLADOBOTRYUM Nees — Sacc. Syll. IV, p. 160.

1. **Cladobotryum terrigenum** Karst. Symb. Myc. Fenn. XXVII, p. 35. — Cæspitulis indeterminatis, arachnoideis, albis; hyphis fertilibus erectis, septatis, ramosis; ramis ternis, brevibus; conidiis terminalibus, ternis, oblongatis, rectis vel inæquilateralibus, continuis, rarius obsoletissime 3-septatis, hyalinis, 28-35 ≃ 11-12. 7223

Hab. ad terram in horto mustialensi Fenniæ. — Ad *Dactylium* vergit.

COËMANSIA v. Tiegh. — Sacc. Syll. IV, p. 162.

1. **Coëmansia spiralis** Eidam Bot. Centr. 1888, III, p. 304. — Mycelio copiose ramoso, septato, hyalino demum brunneolo, hinc inde noduloso; hyphis fertilibus confertis, septatis, simplicibus, in spiram sursum densiorem contortis; sporophoris circa spiras nascentibus, sterigmata 4-5 uniseriata patentia, subcuboidea emittentibus; conidiis solitariis longe fusoideis, hyalinis, 10-12 ≃ 0,8-1. 7224

Hab. in tegumento vetusto udo equitum, ubi flocculos sparsos efficit, in Germania.

CLONOSTACHYS Corda — Sacc. Syll. IV, p. 165.

1. **Clonostachys spectabilis** (Harz) Sacc. *Botrytis spectabilis* Harz Hyph. pag. 27, tab. V, fig. 2. — Cæspitulis densis, subglobosis, 2-3 mm. diam., initio albis dein carneolis; hyphis erectis, filiformibus, remote septatis, a medio sursum iterato-dichotomo-ramosis, ramu- 7225

lis subinde ternis; conidiis secus ramulos longe et dense spicatis, globulosis, 6 μ. diam., ex hyalino roseolis.

Hab. in ramis putridis Carpini Betuli, Æsculi in Austria (Harz) et in pulvere coriario in Hollandia (Oudemans). — Cl. Oudemans in litt. monet conidia in hac specie esse stipitellata, qua nota accedit tum ad *Sceptromycetem*, tum ad *Botrytis* sectionem *Phymatotrichum*. Hinc in clavi generum (Syll. IV, p. 6) leviter reformandum character quoad conidia subinde stipitata.

2. **Clonostachys Gneti** Oud. Microm. I, p. 10, t. II, f. 1–5. — Cæ- 7226
spitosa, candidissima, amphigena; hyphis fructiferis erectis, articulatis, ramosissimis, ramis primariis vulgo sparsis, secundariis, tertiariis etc. bi- v. ternatim verticillatis, ab axi primario paulum tantum divergentibus, ex basi latiore vel inflata adscendentibus, ramis ultimis acuminatis; conidiis densissime plurifariam imbricatis, 6–7 ≈ 2,5-3, ovoideis vel obovatis; spicis partialibus in longiores congestis, 160–190 μ. alt.

Hab. in foliis Gneti Gnomonis putrescentibus in horto botanico Amsterdam Nederlandiæ.

GONATORRHODIELLA Thaxt. Bot. Gaz. 1891 p. 202 (Etym. a *Gonatorrhodum* cui subaffinis). — Hyphæ steriles subhyalinæ, repentes, ramosæ, septatæ; fertiles erectæ, parce septatæ, in vesiculas primo terminales, dein et intercalares, conidiophoras hinc inde inflatæ, simplices vel parce ramosæ. Conidia ellipsoidea, continua, catenulata e vesicula superficie vix punctulata immediate oriunda, hyalina, capitulum sphæricum formantia.

1. **Gonatorrhodiella parasitica** Thaxt. loc. cit. t. XIX, f. 7–10. — 7227
Subsparsa, pallida; hyphis fertilibus fere 1 mm. alt., 8–12 μ. cr., hyalinis dein fulvellis; vesiculis 25–35 μ. diam., raro 43 ≈ 36; conidiis plerumque in quaque catenula ternis, ovoideis vel ellipsoideis, utrinque acutiusculis, 8–12 ≈ 6–7, infero majore.

Hab. parasitice in Hypomycete et Hypocrea, Connecticut Amer. bor. — Vesiculæ intercalares proliferationibus successivis formantur, ita ut quævis vesicula sit initio terminalis.

Sect. 2. Didymosporæ Sacc.

DIPLOSPORIUM Bon. — Sacc. Syll. IV, p. 176.

1. **Diplosporium breve** Peck 44 Rep. pag. 26. — Hyphis cæspitosis, 7228

brevibus, sparse ramosis, albis; conidiis oblongis, 1-septatis, ad septum subconstrictis, hyalinis, 12,5-15 ≃ 5-6,5.

Hab. ad Sphærias nonnullas, Redfield Amer. bor.

2. **Diplosporium albo-roseum** Karst. Symb. Myc. Fenn. XXVIII, p. 44. 7229
— Cæspitulis gregariis, sæpissime confluentibus, byssinis, sat densis, minutis, albis, dein in roseum vergentibus, hyphis fertilibus vage ramosis, articulatis, adscendentibus; conidiis oblongatis v. ovoideo-oblongatis, solito medio constrictis, sæpissime obsolete 1-septatis, hyalinis, eguttulatis, 30-40 ≃ 12-14.

Hab. in rimis corticis Syringæ vulgaris in horto mustialensi Fenniæ.

TRICHOTHECIUM Link — Sacc. Syll. IV, p. 179.

1. **Trichothecium albido-roseum** (Roum.) Berl. et Vogl. Add. Syll. 7230
n. 3600, *Trichosporium albido-roseum* Roum. in Rev. Myc. 1886, p. 92. — Cæspitulis pulvinatis, primo distinctis dein confluentibus, primum albis dein roseis, inter corticem et lignum nidulantibus et perithecia *Diplodiæ Mori* tegentibus; hyphis sterilibus repentibus, ramosis, septatis, intricatis; hyphis fertilibus erectis, non septatis, raris; conidiis ovoideis (non piriformibus), didymis, 16-20 ≃ 10-14.

Hab. in ramis emortuis Mori albæ udis, Carcassone Galliæ.

CEPHALOTHECIUM Corda — Sacc. Syll. IV, p. 181.

1. **Cephalothecium macrosporum** Speg. Guar. I, p. 161. — Mycelio 7231
laxe arachnoideo, adnato-effuso, tenuissimo, albo; hyphis sterilibus repentibus, densiuscule ramulosis, continuis vel parcissime septulatis, 3-5 μ. cr., hyalinis; hyphis fertilibus hinc inde laxissime adsurgentibus, continuis v. sæpius 3-5-septatis, cylindraceis, breviusculis, erectis, gracilibus, 35-60 ≃ 1-2, rectis v. vix flexuosulis, sursum sensim attenuatis, apice minute abrupteque noduloso-sterigmatophoris; hyalinis sterigmatibus minutissimis, vix perspicuis, 6-10-aggregatis; conidiis subcapitatis, ellipticis v. elliptico-subclavulatis, elongatulis, 10-18 ≃ 2,5, utrinque obtusiusculis, medio 1-septatis, non constrictis, locule infero quam supero sæpius crassiore, hyalinis,

Hab. ad stromata viva Schneepiæ guaraniticæ in foliis Styracis sp., Ja-kan Brasiliæ.

2. **Cephalothecium Lycopersici** (Plowr.) Sacc. *Dactylium* Plowr. 7232
Fung. Dis. Tom. p. 4, f. 8. — Floccosum, albido-roseum; hyphis

erectis, sparse septatis; conidiis hyalino-roseolis ovoideis v. ovato-piriformibus, 1-septatis, sæpe apiculatis, ternatim acrogenis.

Hab. in fructibus Solani Lycopersici pr. King's Lynn Britanniæ.

DIDYMOPSIS Sacc. et March. — Syll. IV, p. 182.

1. **Didymopsis spicata** Rich. Cat. Champ. Marn. n. 1917. — Velutina, albida; hyphis erectis, ramosis; conidiis cuneiformi-elongatis, hyalinis, 1-septatis, verticillatim et spicatim dispositis. 7233

Hab. in disco Peziæ (Geopyxidis) Ciborii?, Marne Galliæ (A. Lebreton).

MYCOGONE Link. — Sacc. Syll. IV, p. 183.

1. **Mycogone ochracea** Boud. Bull. Soc. Myc. 1891, p. 81, t. V, f. 2. — Ochracea, non fulvescens; conidiis didymis, loculo superiore sphærico, ochraceo, verrucis satis congestis exasperato, 16–20 μ. cr., inferiore hemisphærico, hyalino, levi, 10 μ. circ. lat., cum pediculo filamentis adfixo. 7234

Hab. ad Acetabulam leucomelam, quam enecat, in silva Isle-Adam Galliæ.

2. **Mycogone alba** Letell. Champ. t. 667, f. 2 et Grev. XVII, p. 80. — A *Myc. rosea*, cui conidiis omnino accedit, colore albo differt. 7235

Hab. in pileo Agarici campestris, Wynyard, Stockton-on-Tees Britanniæ (H. E. Gribble). — Descriptio et icon Letell. omnino imperfectæ.

DIDYMARIA Corda — Sacc. Syll. IV, p. 184.

1. **Didymaria Clematidis** Cooke et Harkness in Grevillea XIII, p. 17. — Hypophylla; maculis griseo-fuscis, subellipticis; conidiis elliptico-elongatis, hyalinis, demum uniseptatis, breviter pedicellatis, 25 ≃ 8. 7236

Hab. in foliis Clematidis in California (Harkness).

2. **Didymaria Linariæ** Pass. in Erb. Critt. It. Ser. II, n. 1494. — Cæspitulis punctiformibus, albis, amphigenis, hyphis simplicibus, subulatis, continuis; conidiis acrogenis, utrinque rotundatis, oblongis, prope medium septatis, 20 ≃ 7,5. 7237

Hab. ad folia viva mox arescentia Linariæ vulgaris pr. Parma Ital. bor.

3. **Didymaria Salicis** Cav. Mat. Lomb. p. 13, t. II, f. 1. — Maculis hypophyllis, late effusis, floccosis, albis; hyphis sterilibus repenti- 7238

bus, parce ramosis, septatis, tenuibus, fertilibus erectis v. ascendentibus, filiformibus, continuis, 100–160 × 2–3; conidiis ovoideis, inæqualibus, 1-septatis, hyalinis, reflexis, 14-16 × 8–9.

Hab. in foliis Salicis capreæ, Colico in prov. Como Ital. borealis.

4. **Didymaria prunicola** Cav. Contr. Fungh. pom. p. 8, fig. 1. — Maculis subcircularibus, 4-6 mm. diam., atro-brunneis, demum confluentibus, mycelio filiformi endogeno tenuissimo; hyphis sterilibus, repentibus, parce septatis, fertilibus filiformibus, erectis simplicibus 120-220 × 2,5-3 plerumque 1-septatis; conidiis piriformibus apice rotundatis, 1-septatis, leviter constrictis, hyalinis, 12–17 × 5–9, solitarie acrogenis, denique nutantibus. 7239

Hab. in foliis Prunorum in horto agrario, Pavia. Sec. cl. Cavara fungillus est parasiticus et noxius; mihi vero videtur a *Trichothecio roseo* saprophytico ægre separandus.

5. **Didymaria muscigena** Speg. F. Puigg. n. 456. — Candida gossypina; hyphis hyalinis longiusculis, crassiusculis, parce ramulosis, laxe septulatis, 100–250 × 10, dense intertextis, apice obtusis monosporis; conidiis cylindraceis vel subclavulatis, 40-60 × 7-10, medio 1-septatis, non constrictis, nubiloso-farctis, hyalinis. 7240

Hab. ad urnas languidas Rhynchostegii sp. in nemorosis pr. Apiahy Brasiliæ.

HORMIACTIS Preuss — Sacc. Syll. IV, p. 186.

1. **Hormiactis Nectriæ** Karst. in Hedw. 1892, p. 303. — Cæspitulis flocculosis, albis; hyphis repentibus, vage ramosis, remote articulatis, hyalinis, 8–10 μ. cr.; conidiis in catenulas terminales, simplices dispositis, superioribus ellipsoideis, sphæroideo-fusoideis v. oblongatis, inferioribus oblongatis v. elongato-fusoideis, primitus utroque apice apiculatis, continuis, demum 1-septatis, rectis, hyalinis, 22-36 × 9-15. 7241

Hab. ad Nectriam coccineam, Mustiala Fenniæ.

Sect. 3. **Phragmosporæ** Sacc.

DACTYLIUM Nees — Sacc. Syll. IV, p. 188.

1. **Dactylium Ulicis** (Cr.) Sacc., *Chætopsis Ulicis* Cr. Fl. Finist. p. 12. — Hyphis e basi incrassata sursum attenuatis, septatis, medio verticillum basidiorum brevium, furcatorum, ascendentium ferentibus; conidiis cylindraceis, truncatis, 8-septatis, hyalinis. 7242

Hab. in foliis adhuc virentibus rami dejecti Ulicis in paludosis, Finistère Galliæ.

2. **Dactylium dendroides** (Bull.) Fr. — Syll. IV, p. 189. — * **D. lichenicolum** Karst. Symb. XX, p. 107. — Effusum, albo-byssinum seu laneum; conidiis oblongatis, utrinque obtusissimis, rectis vel subrectis, 3-septatis, non constrictis, hyalinis, 24-36 ≃ 7-8. 7243

Hab. in thallo putrescente Parmeliarum prope Mustiala Fenniæ.

BLASTOTRICHUM Corda — Sacc. Syll. IV, p. 191.

1. **Blastotrichum floccosum** (Harz.) Berl. et Vogl. Add. Syll. n. 3604, *Acrothecium floccosum* Harz Hyph. p. 37, t. IV, f. 9. — Candidum, demum luteolum, tenue, ramosum, subrepens; hyphis filiformibus, subcontinuis, sporophora brevissima, simplicia vel ramulosa erecta hinc inde emittentibus; conidiis clavatis, 3-5-septatis, non constrictis, 35 μ. longis. 7244

Hab. in epidermide hominis eczemate laborantis in Germania.

2. **Blastotrichum obtusum** (Bon.) Sacc., *Helm. obtusum* Bon. Handb. p. 99, f. 169. — Cæspitulis albis, subfarinaceis; hyphis simplicibus, septatis, crassis, apice obtusis; conidiis oblongo-cylindraceis, utrinque rotundatis, 3-septatis, albis, plerumque pleurogenis, raro binis catenatis. 7245

Hab. in (truncis?) in Guestphalia.

MONACROSPORIUM Oud. — Sacc. Syll. IV, p. 193.

1. **Monacrosporium sarcopodioides** (Harz) Berl. et Vogl. Add. Syll. n. 3606, *Acrothecium sarcopodioides* Harz Hyph. pag. 36, t. II, fig. 4. — Candidum, tenuissimum; hyphis filiformibus, repentibus; sporophoris ascendentibus, continuis, in conidium clavatum 3-5-septatum, hyalinum, 35-38 μ. longum, longitudine sporophori abeuntibus. 7246

Hab. in lignis quercinis et pineis putridis, Wien Austriæ.

DACTYLARIA Sacc. — Sacc. Syll. IV, p. 195.

1. **Dactylaria mucronulata** Ell. et Langl. Journ. Myc. 1890, p. 35. — Hyphis sterilibus prostratis, obsoletis vel nullis, fertilibus erectis, 35-40 ≃ 3,5, continuis v. evanide 1-2-septatis, subtus brunneis, plus minus angulose incurvis, supra subhyalinis; sterigmatibus terminalibus et lateralibus; conidiis oblongis, 2-guttatis, hyalinis, 8-10 ≃ 2,5-3 7247

Hab. in ligno decorticato et putri Caryæ, St. Martinsville, Louisiana Amer. bor. (LANGLOIS).

2. **Dactylaria Orchidis** Cooke et Mass. in Grev. XIX, pag. 42. — Sparsa; hyphis simplicibus erectis, e mycelio tenui, ramoso assurgentibus; hyphis septatis, 250–280 ≃ 10–12, aurantiacis, apice breviter bis 2–3-furcatis; conidiis fusoideis, 4-guttatis, dein 3-septatis, hyalinis, 40-50 ≃ 7-9, in ramulorum apice solitariis capitulumque laxum efformantibus. 7248

Hab. in foliis putribus Oncidii macranthi, Kew Britanniæ.

RAMULARIA Ung. — Sacc. Syll. IV, p. 196.

I. *In Dicotyledoneis lignosis.*

1. **Ramularia Banksiana** (Pass.) Sacc., *Fusidium Banksianum* Pass. in Erb. Critt. It. Ser. II, n. 1078. — Cæspitulis minutis, erumpentibus, punctiformibus, candidis, aggregatis dein confluentibus; conidiis lanceolatis, integris, hyalinis, endoplasmate opaco, 7,5–12 ≃ 2,5–3. 7249

Hab. in foliis emortuis adhuc pendulis Rosæ Banksiæ, Parma Ital. bor.

2. **Ramularia destruens** Peck 44 Rep. p. 26, t. IV, fig. 4-6. — Cæspitulis amphigenis, minutis, gregariis, albis; hyphis brevissimis, 5-10 μ. long.; conidiis ellipsoideis vel oblongis, hyalinis, 5-12,5 ≃ 3-4. 7250

Hab. in foliis vivis Piri americanæ, Hewitt's pond in montibus Adirondack Amer. bor. — « An *Ovularia Malorum?* »

3. **Ramularia lethalis** Ell. et Ev. Proc. Acad. Phil. 1891, p. 86. — Maculis irregularibus, confluentibus, 3–6 μ. diam., atro-brunneis, folium totum occupantibus et enecantibus; hyphis hypophyllis tenuibus, 12-15 ≃ 2; conidiis ex ellipsoideo oblongis, 5-12 ≃ 2,5-3,5, longioribus 1-septatis, brevioribus continuis. 7251

Hab. in foliis Aceris rubri, London Canada, Amer. bor. (DEARNESS).

4. **Ramularia Liriodendri** Ell. et Ev. Journ. Myc. 1888, p. 2. — Maculis amphigenis, ochraceis, circ. 0,5 cm. diam., atro-marginatis; hyphis hypophyllis, 15-40 ≃ 3, continuis vel 1-2 septatis, hyalinis, apicibus sæpe obliquis; conidiis variabilibus, acute ellipsoideis, 5–6 ≃ 3 v. elongatis, 12-20 ≃ 3, continuis v. 1-septatis, utrinque sæpius acutis. 7252

Hab. in foliis Liriodendri Tulipiferæ, Faulkland, Delaw. Amer. bor. (O. COMMONS), socio *Glœosporio Liriodendri.*

5. **Ramularia stolonifera** E. et E. Proc. Acad. Phil. 1891, p. 85. — 7253
Hypophylla; maculis parvis, pallide rubentibus, subindefinitis, supra distinctioribus; hyphis subfasciculatis, hyalinis, simplicibus v. parce ramosis, 20-40 ≃ 3-4, continuis, supra obtusis et denticulatis; conidiis cylindraceis, obtuse acuminatis, 2-3 in series concatenatis, 10-30 ≃ 2-3.

Hab. in foliis Corni sanguineæ, London Canada Amer. bor. (J. Dearness).

6. **Ramularia repens** Ell. et Ev. Proc. Phil. 1891, p. 85. — Hypo- 7254
phylla; cæspitulis cinereo-albis, 2-4 mm. diam., indefinitis vel a venulis limitatis; hyphis subfasciculatis, 12-20 ≃ 3, supra subdenticulatis, ex hyphis sterilibus, ramosis, repentibus adsurgentibus; conidiis cylindraceis, guttulatis, granulosis, 15-22 ≃ 3-4, nonnullis septatis et constrictis, 2-3 in series subconcatenatis, superioribus, interdum conidia 2-3 apice digitatim gerentibus.

Hab. in foliis Araliæ racemosæ, London Canada Amer. bor. (J. Dearness).

7. **Ramularia Viburni** Ell. et Ever. Journ. Mycol. 1889, pag. 69. — 7255
Maculis amphigenis, primo virescenti-brunneis, dein rubiginoso-brunneis, 4-5 μ. diam., suborbicularibus, saturatius marginatis; cæspitulis erectis, simplicibus; hyphis amphigenis, 12-20 ≃ 2,5-3, hyalinis; conidiis fusoideo-cylindraceis, subcurvulis, 1-3-septatis, 20-40 ≃ 1,5-2, flavido-hyalinis.

Hab. in foliis vivis Viburni Lentaginis, Racine, Wis. Amer. bor. (Doct. J. J. Davis).

8. **Ramularia Göldiana** Sacc., *Ramularia* ..... Göldi Relatorio sobre 7256
a molestia do Caffeiero na prov. Rio de Janeiro 1887, p. 37-38, t. IV, f. 26-31. — Maculis subcircularibus, arescendo discolori-zonatis, zonis albis rufisque, cæspitulis hypophyllis albis, sæpe e stomatibus erumpentibus; hyphis filiformibus; conidiis cylindraceis, utrinque truncatis, catenulatis, hyalinis.

Hab. in foliis ramulisque vivis, quæ necat, Coffeæ arabicæ in prov. Rio-Janeiro Brasiliæ. — Ex icone hyphæ conidiophoræ a conidiis non distinguuntur.

9. **Ramularia angustata** Peck 32 Rep. p. 42. — Maculis parvis, or- 7257
bicularibus, interdum confluentibus, pallide viridulo-flavis; cæspitulis minutis; conidiis anguste fusoideis vel subcylindraceis, 2-3-guttatis, 7,5-10 ≃ 2,5.

Hab. in foliis vivis Azaleæ nudifloræ, Central Bridge et Carlisle Amer. bor.

10. **Ramularia effusa** Peck 32 Rep. p. 42. — Hypophylla, effusa, albida; conidiis valde variabilibus, globosis, obovatis, ellipsoideis v. cylindraceis, 4-27,5 ≃ 5, raro 1-septatis. 7258

Hab. in foliis vivis Gaylussaciæ resinosæ, Center Americæ borealis.

11. **Ramularia albo-maculata** Peck 32 Rep. p. 42. — Maculis suborbicularibus, 4-6 mm. lat., subinde confluentibus, supra pallide flavo-viridulis, subtus dealbatis, demum purpureis v. brunneis; conidiis oblongis v. ellipsoideis, sæpius 2-guttatis, 7,5-10 ≃ 4. 7259

Hab. in foliis vivis Caryæ albæ, Albany et Greenbush Amer. bor. — *Peronospora rufibasis* B. et Br. — Syll. VII, 1, p. 261 — observante cl. Trail, eadem est ac *Ramularia destructiva* Ph. et Plowr.

II. *In Dicotyledoneis herbaceis.*

12. **Ramularia Barbareæ** Peck 40 Rep. p. 63. — Maculis suborbicularibus, aridis, albis, sæpius linea brunnea, subincrassata cinctis; cæspitulis amphigenis, nunc brevibus et ramosis, nunc longioribus et simplicibus; conidiis oblongis v. cylindraceis, sæpe catenulatis, raro uniseptatis, 10-22,5 ≃ 3-4. 7260

Hab. in foliis viventibus Barbareæ vulgaris, Highland Mills et Port Henry Amer. bor.

13. **Ramularia Levistici** Oud. Contr. Fl. Myc. Pays-Bas. XI, p. 40, *Ovularia* Berl. et Vogl. Add. Syll. n. 3597. — Maculis sparsis, brunneis; cæspitulis amphigenis vel tantum epiphyllis; hyphis cylindraceis ramosis, sursum multi-articulatis, e cellulis linearibus, 20-25 ≃ 2-5, utrinque rotundatis, imperfecte conjunctis compositis; conidiis ovoideis, uniseptatis. 7261

Hab. in foliis Levistici officinalis, Putten Hollandiæ.

14. **Ramularia Schulzeri** Bäuml. F. Schemn. p. 10. — Maculis vagis, indeterminatis, ochraceis, demum roseis; cæspitulis gregariis, 30-80 μ. diam.; hyphis dense fasciculatis, e stromate pulviniformi, minuto ortis, non v. parce ramulosis, hyalinis, 20-40 ≃ 2-4; conidiis solitariis v. breve catenulatis, cylindraceis, utrinque attenuatis, non v. 1-septatis, 10-20 ≃ 3-4, hyalinis. 7262

Hab. in foliis vivis Lotti corniculati pr. Prencow Hungariæ.

15. **Ramularia Violæ** Trail Trans. Crypt. Scot. 1889, p. 47. — Maculis amphigenis, aridis, subcircularibus v. confluentibus, totum folium interdum fere occupantibus; hyphis erectis, subclavatis, 1-septatis, sæpius hypophyllis, circ. 20-25 ≃ 3-4; conidiis 2-3 in ca- 7263

tenas dispositis, fusoideis vel subcylindraceis, utrinque rotundatis, rectis, 10-16 ≃ 2-3, hyalinis, dein 1-septatis.

Hab. in foliis vivis Violæ silvaticæ, Dalmally prope Loch Awe et Inveraray Scotiæ. — Affinis *R. lacteæ*.

16. **Ramularia Areola** Atkinson in Bot. Gaz. 1890, p. 168 c. icone. 7264 — Maculis hypophyllis, raro amphigenis, primo pallidis, dein obscurioribus, 1-10 mm. (sæpius 3-4) lat., angulosis, irregularibus, venulis folii limitatis; hyphis hypophyllis, raro amphigenis, minute fasciculatis, subnodosis, demum sæpe basi ramosis v. rarius supra denticulatis, pluries septatis, hyalinis, 25-75 ≃ 4,5-7; conidiis oblongis, utrinque sæpe abrupte acuminatis, interdum rotundatis, 1-3-septatis, primitus concatenatis, 14-30 ≃ 4-5.

Hab. in foliis Gossypii herbacei, Auburn Alabama Amer. bor. (F. Atkinson).

17. **Ramularia Sidalceæ** Ell. et Ev. Journ. Myc. 1888, p. 1. — Ma- 7265 culis amphigenis, 2-4 mm. diam., atro-purpureis, centro sordide albidis v. griseolis, margine subindefinitis; hyphis fertilibus hypophyllis, e stomatibus in cæspitulos densos assurgentibus, hyalinis, simplicibus, 15-20 ≃ 3, sursum subdenticulatis et subangulose incurvis v. integris; conidiis subcatenulatis, hyalinis, oblongis v. oblongo-cylindraceis, continuis v. 1-septatis, 12-22 ≃ 2,5-3.

Hab. in foliis Sidalceæ, Columbia britannica Amer. bor. (Prof. J. Macoun).

18. **Ramularia silenicola** C. Mass. Contr. Mic Ver. p. 110, t. 4, f. 26. 7266 — Cæspitulis amphigenis, numerosissimis, effusis, subpunctiformibus (ut folia infecta, sub vitro parum augente, fere granulis farinaceis conspersa appareant), subcinereis, haud maculigenis; hyphis fertilibus, 16-36 μ. long., dense fasciculatis, ex stomatum ostiolis egredientibus, rectis, simplicibus, apicem versus minute subdenticulatis; conidiis 10-16 ≃ 4-5, continuis, catenulatis, elliptico-oblongis, utrinque magis minusve manifeste apiculatis.

Hab. in foliis Silenes inflatæ, Tregnago in agro veronensi Ital. bor. — *R. lychnicolæ* valde affinis, sed non maculigena conidiisque apiculatis.

19. **Ramularia didymarioides** Br. et Sacc. sp. nov. — Maculis inde- 7267 terminatis, subochraceis, cæspitulis amphigenis, dense et late gregariis, punctiformibus, albis; hyphis fasciculatis, filiformibus, simplicibus, 90-100 ≃ 4-5, sursum denticulatis, continuis; conidiis tereti-oblongis, apice rotundatis, basi obtuse subtenuatis, 1-septatis, dein 2-septatis, 28-36 ≃ 8-9, hyalinis.

Hab. in foliis Silenes inflatæ, Allibaudières, Aube Galliæ (Hariot). — Ob conidia crassiuscula et passim 1-septata ad *Didymariam* nutat.

20. **Ramularia Heraclei** (Oud.) Sacc. Syll. IV, p. 205. — Var. **Apii-graveolentis** Sacc. et Berl. F. Ven. p. 19. — Maculis sparsis variis, aridis, brunneis; hyphis longiusculis, cylindraceis, continuis, apice denticuligeris, 70-80 ≃ 3; conidiis cylindraceis, continuis, 22 ≃ 4-5, demum 1-septatis et tunc 38 ≃ 3,5-4, hyalinis. 7268

Hab. in foliis vivis Apii graveolentis, Padova (Bizzozero).

21. **Ramularia Chamænerii** Rostrup Island Svamp. in Bot. Tidssk. 1885. — Conidiis obovato-oblongis, 1-septatis, 25 ≃ 7-9, strata densiuscula alba formantibus. 7269

Hab. in foliis tenellis Epilobii (Chamænerii) latifolii in Islandia.

22. **Ramularia Cardui** Karst. Symb. XX, p. 109. — Maculis epiphyllis, subcircularibus, pallidis, majusculis; cæspitulis densissime gregariis, macularum superficiem ut pruina albida obtegentibus; conidiis bacillaribus, continuis, rectis, 13-21 ≃ 2-3. 7270

Hab. in foliis languescentibus Cardui crispi in regione vasensi, Kapelbacken Fenniæ. — *R. Taraxaci* affinis.

23. **Ramularia arnicalis** Ell. et Ev. Proc. Acad. Phil. 1891, p. 85. — Maculis amphigenis, 3-4 mm. diam., suborbicularibus v. a venulis partim limitatis, supra atro-brunneis, margine subdilutius flavido, subindefinito cinctis, subtus sordide albis; hyphis hypophyllis, subfasciculatis, 12-20 ≃ 2,5-3, apice leniter denticulatis; conidiis subcylindraceis, 15-20 ≃ 3, guttatis, utrinque acutis, apice superiore sæpius subcurvis. 7271

Hab. in Arnica cordifolia, Rimini, Montana Amer. bor. (Rev. F. D. Kelsey).

24. **Ramularia concomitans** Ell. et Holw. Journ. Myc. 1888, p. 2. — Maculis amphigenis, pallide flavidis, definitis, suborbicularibus, 2-4 mm. lat., sæpius margine atro, angusto, subelevato cinctis; hyphis fasciculatis, brevibus, amphigenis, sæpius tamen hypophyllis; conidiis 3-5 in series concatenatis, cylindraceis, utrinque acutis, 1-septatis, raro 2-septatis, 15-22 ≃ 3-4. 7272

Hab. in foliis Bidentis, Decorah, Jowa Amer. bor., sociâ *Cercospora umbrata.*

25. **Ramularia variegata** Ell. et Holw. in Arth. Rep. Bot. Minnes. 1886, pag. 34. — Maculis amphigenis, latis, indefinitis, 0,5-1 cm. diam., supra brunneo- v. albo-reticulatis, subtus minus distinctis; 7273

hyphis amphigenis sed sæpius hypophyllis, fasciculatis, hyalinis, simplicibus, supra dentatis, 15-25 ≃ 4; conidiis oblongo-cylindraceis, hyalinis, 1-septatis, ad septum sæpe constrictis, 20-35 ≃ 3,5-4,5.

Hab. in foliis vivis Petasitis palmatæ, Lacus Vermilion Amer. bor.

26. **Ramularia serotina** Ell. et Ever. Journ. Mycol. 1889, p. 69. — 7274
Maculis amphigenis, 1-5 mm. lat., pallide flavo-brunneis, margine definito, saturatiore cinctis, interdum per 1 cm. vel ultra subirregulariter confluentibus; hyphis amphigenis, fasciculatis, subnodosis, supra dentatis, continuis vel vix 1-2-septatis, hyalinis, 25-30 ≃ 3; conidiis oblongo-cylindraceis, hyalinis, 1-septatis, 15-28 ≃ 3, subconcatenatis.

Hab. in foliis Solidaginis serotinæ, Lake County Amer. bor. (Doct. J. J. Davis).

27. **Ramularia Sonchi-oleracei** Fautr. Rev. Myc. 1891, p. 133. — Ma- 7275
culis arescentibus, nigris, flavido-cinctis, irregularibus, nervis sæpe limitatis; hyphis tenuibus, hypophyllis; conidiis numerosis, hyalinis, guttatis v. 1-septatis, cylindraceis, 10-12 ≃ 2,5.

Hab. in foliis Sonchi oleracei, Côte-d'Or Galliæ (F. Fautrey).

28. **Ramularia Picridis** Faut. et Roum. Rev. Myc. 1892, pag. 10. — 7276
Maculis brunneolis, purpureo-cinctis; cæspitulis numerosis; hyphis sæpius hypophyllis, apice denticulatis, 40-50 μ. long.; conidiis cylindraceis, rectis, 1-septatis, 16-32 ≃ 4.

Hab. in foliis Picridis hieracioidis, Côte-d'Or Galliæ (F. Fautrey).

29. **Ramularia Taraxaci** Karst. — Syll. IV, p. 207. — Var. **italica** 7277
C. Mass. Contr. Myc. Ver. p. 111. — Cæspitulis vulgo hypophyllis, maculicolis; maculis suborbiculatis, exaridis, subfuscis, interdum subvirescenti-marginatis; conidiis bacillaribus, usque ad 33 ≃ 3-5, continuis v. 1-septatis.

Hab. in foliis languidis Taraxaci officinalis, Campofontana, in agro veronensi Italiæ bor.

30. **Ramularia lineola** Peck 32 Rep. p. 43. — Maculis suborbicularibus, interdum confluentibus, brunneis, lineis tenuibus, concentrice ornatis; cæspitulis obscuris, hypophyllis; conidiis tenuibus, cylindraceis, obtusis, sæpe 1-septatis, 12,5-20 μ. long. 7278

Hab. in foliis vivis Taraxaci officinalis, Greenbush Americæ borealis.

31. **Ramularia Crepidis** E. et E. Journ. Myc. 1886, p. 46. — Amphigena; maculis orbicularibus, subconcentrice rugosis, pallidis, 2,5-7,5 mm. diam., brunneo-marginatis; hyphis cæspitosis, maculæ centro insertis, erectis, rigidis, subrectis, supra parum attenuatis et parce dentatis, 25-35 ≃ 4-5, continuis; conidiis acute ellipsoideis, 12 ≃ 5-6 v. fusoideis, cylindraceis v. oblongis, 20-25 ≃ 5-8, hyalinis, tandem 1-septatis. 7279

Hab. in foliis Crepidis glaucæ, Raton, New Mexico Amer. bor. (S. M. Tracy).

32. **Ramularia filaris** Fres. — Syll. IV, pag. 210. — Var. **Hieracii** Bäuml. F. Schemn. III, p. 15. — Hyphis irregulariter erectis, 15-25 ≃ 4-5; conidiis sæpius utrinque truncatis, 18-26 ≃ 2-4, uniseptatis. 7280

Hab. in foliis vivis Hieracii Pilosellæ, Schemnitz Hungariæ.

33. **Ramularia Succisæ** Sacc. Syll. IV, pag. 207. — Var. **Knautiæ** C. Mass. Contr. Mic. Ver. p. 111. — Maculis parvis, orbicularibus, amphigenis, atro-violaceis; cæspitulis minutis, candidis; hyphis fertilibus, fasciculatis, simplicibus, superne denticuligeris, 20-35 ≃ 3; conidiis catenulatis, cylindraceo-fusoideis, 10-20 ≃ 2,5-4, continuis v. sæpius 1-septatis. 7281

Hab. in foliis Knautiæ silvaticæ, Vico pr. Tregnago in agro veronensi Italiæ bor.

34. **Ramularia Bryoniæ** Fautr. et Roum. Rev. Myc. 1891, p. 81. — Maculis magnis, irregularibus, aridis; conidiis concatenatis, hyalinis, oblongis, obtusis, subcurvis, continuis v. 1-septatis, 14-18 ≃ 4-5. 7282

Hab. in foliis subvivis Bryoniæ dioicæ, Noidan, Côte-d'Or Galliæ (F. Fautrey).

35. **Ramularia Centranthi** Brun. Champ. Saint. 1887, p. 430. — Maculis suborbicularibus, oblongis v. irregularibus, brunneis, epiphyllis; hyphis hyalinis, cæspitosis, simplicibus vel breviter ramulosis, continuis, 20-30 ≃ 3,5; conidiis cylindraceis, utrinque obtusis vel rotundatis, 15-25 ≃ 3,5-4, hyalinis, continuis guttulatis vel 1-septatis. 7283

Hab. in foliis Centranthi rubri, Fouras pr. Saintes Galliæ.

36. **Ramularia Leonuri** Sorok. Mycol. (Karan 1872) pag. 30, t. VI, f. 18-21. — Hyphis sterilibus endogenis ramosis continuis, fertilibus per stomata exeuntibus, fasciculatis, cylindraceis, parce denticulatis; conidiis fusoideis, utrinque acutiusculis, demum 1-septatis, hyalinis, 29 ≃ 3-4. 7284

Hab. in foliis Leonuri Cardiacæ in Rossia.

37. **Ramularia Stachydis** (Pass.) C. Mass. Contr. Mic. Ver. p. 113, t. 4, f. 27, *Fusidium* Pass. in Flora 1881, p. 298. — Cæspitulis amphigenis subpunctiformibus, flocculoso-pulveraceis, albidis, in maculis oblongis irregularibusve, subarescentibus effusis; hyphis fertilibus fasciculatis, brevibus, continuis, simplicibus, superne subattenuatis sæpeque 1-2-denticulatis, 10-20 ≃ 2,5-3; conidiis catenulatis, hyalinis, initio ovalibus, dein eximie elongato-cylindraceis bacillaribusve (hyphis longioribus) utrinque subacutis, continuis, ut plurimum tamen 1-3-septatis, 10-38 ≃ 3-4. 7285

Hab. in foliis bracteisque vivis Stachydis annuæ in agro parmensi et veronensi Ital. bor.

38. **Ramularia Marrubii** C. Mass. Mic. Ver. p. 114. — Maculis parvis, exaridis, rufescentibus, internerviis; cæspitulis pulverulentis, candidis, hypophyllis v. subamphigenis; hyphis fertilibus densissime fasciculatis, 60-80 ≃ 3-4, superne denticuligeris, interdum breviter ramulosis, continuis; conidiis in catenulas ramosas dispositis, valde polymorphis, breviter ovalibus, elongato-ellipticis, cylindraceo-fusiformibus, hyalinis, utrinque plus minus apiculatis, continuis vel 1-septatis, 3-5 μ. cr. 7286

Hab. in foliis Marrubii vulgaris in agro veronensi Italiæ borealis.

39. **Ramularia Harioti** Sacc., *Ramularia Brunellæ* Br. et Har. Rev. Myc. 1891, p. 17, an Ell. et Ever.? — Maculis albo-griseis, amphigenis, plus minus orbicularibus, linea pallide ochracea cinctis; hyphis fasciculatis, hypophyllis, cylindraceis, hyalinis, continuis, 16-32 ≃ 2,5-3; conidiis cylindraceis v. ovato-oblongis, utrinque acuminatis v. obtusiusculis, rectis v. simplicibus, hyalinis, 16-22 ≃ 4-6. 7287

Hab. in foliis Brunellæ vulgaris, Pont-sur-Seine, Aube Galliæ (P. Hariot). — «Probabiliter forma macrospora sequentis».

40. **Ramularia Brunellæ** Ell. et Ever. Journ. Mycol. 1889, p. 69. — Maculis magnis, atro-brunneis, supra plus minus distincte concentrice zonatis, subindefinite limitatis, plus minus confluentibus; cæspitulis minutis, sparsis; hyphis hypophyllis brevibus, 10-15 ≃ 2,5, hyalinis, supra sæpius dentatis; conidiis oblongo-cylindraceis, continuis, 10-15 ≃ 1,5-3. 7288

Hab. in foliis vivis Brunellæ vulgaris. Racine, Wis. Amer. bor. (Doct. J. J. Davis).

41. **Ramularia lamiicola** C. Mass. Bot. Centr. 1890, n. 26, p. 386, — Maculis angulosis, internerviis, demum confluentibus; cæspitulis hy- 7289

pophyllis, candidis, subpulverulentis; hyphis fertilibus fasciculatis 25–50 × 3–3,5 continuis, simplicibus sursum denticuligeris; conidiis catenulatis, continuis, polymorphis, breviter ovalibus, ellipsoideis, subcylindraceo-fusiformibus, utrinque rotundatis, 18–20 × 3,5–5.

Hab. in foliis vivis Lamii albi, Calavena prope Tregnago prov. Verona. — Ab *Ovularia Lamii* conidiis polymorphis recedit.

42. **Ramularia Ballotæ** C. Mass. Bot. Centr. alb. 1890, n. 26, p. 386. — Maculis parvis, subrotundis in pagina superiore foliorum fuscescentibus; cæspitulis niveis, amphigenis, plerumque tamen hypophyllis; hyphis fertilibus breviusculis, circiter 16–20 × 2–2,5, continuis superne parum denticuligeris; conidiis in catenulas ramosas digestis, valde polymorphis, ovalibus elliptico-oblongis, cylindraceis, utrinque subacutiusculis, continuis vel 1- rarissime 2-septatis, vulgo 8–16 × 2–2,7. 7290

Hab. in foliis vivis Ballotæ nigræ prope viculum S. Mauro di Saline prov. Verona.

43. **Ramularia Beccabungæ** Fautr. Rev. Myc. 1892, p. 10. — Maculis circularibus, rubentibus, concentrice rugosis, folium mox perforantibus; hyphis divaricatis, apice denticulatis; conidiis cylindraceis, rectis, raro septatis, 15–26 × 3–4. 7291

Hab. in foliis Veronicæ Beccabungæ, Côte-d'Or Galliæ (F. Fautrey).

44. **Ramularia Veronicæ** Fautrey in Rev. myc. 1890, p. 125. — Maculis minutissimis, solitariis vel confluentibus, sordide flavis, sæpius hypophyllis; conidiis simplicibus, cylindraceis, 14–24 × 3,5, granulosis vel guttatis. 7292

Hab. in foliis Veronicæ hederifoliæ, Charny, Côte-d'Or Galliæ (F. Fautrey).

45. **Ramularia Scrophulariæ** Fautr. et Roum. Rev. Myc. 1891, p. 81. — Maculis purpureis, dein pallidis; hyphis epiphyllis, erectis, acuminatis, 15–30 × 3; conidiis longe concatenatis, simplicibus, cylindraceis, abrupte attenuatis, magnitudine varia, 6–20 × 3–4. 7293

Hab. in foliis subvivis Scrophulariæ aquaticæ. Noidan, Côte-d'Or Galliæ (F. Fautrey).

46. **Ramularia Petuniæ** Cooke in Grev. XX, p. 8. — Epiphylla; maculis latis, orbicularibus vel irregularibus, ochraceis; hyphis brevibus; conidiis cylindraceis, utrinque rotundatis, continuis, dein 1-septatis, hyalinis, 20–22 × 4. 7294

Hab. in foliis Petuniæ, Plymouth Britanniæ.

47. **Ramularia Plantaginis** Peck 32 Rep. p. 43. — Maculis suborbi- 7295

cularibus, interdum confluentibus, brunneis; cæspitulis amphigenis; conidiis oblongis vel cylindraceis, obtusis, 20–40 ≃ 5–6,5, interdum 1-septatis.

Hab. in foliis vivis Plantaginis lanceolatæ, Carlisle Americæ borealis.

48. **Ramularia Oxyriæ** Trail Fung. Hard. p. 493. — Maculis amphigenis, circularibus vel ovatis, 2–3 mm. diam., pallidis vel subalbidis, margine lato, atro-viridi, dein rubro-brunneo cinctis; hyphis gracilibus; conidiis hyalinis, cylindraceis, plus minus incurvis, utrinque obtusis, 3–4-septatis, 70–90 ≃ 2–2,5. 7296

Hab. in foliis Oxyriæ digynæ, Simodal Norvegiæ.

49. **Ramularia occidentalis** E. et K. Journ. Myc. 1887, pag. 103. — Amphigena; cæspitulis minutis, albis, punctiformibus; hyphis cæspitosis, bacillaribus vel superne subundulatis, simplicibus, 20–35 ≃ 2,5–3, hyalinis, continuis; conidiis catenatis, hyalinis, ex ovato-ellipsoideis, 5–6 ≃ 2–3 vel anguste cylindraceis, 25–35 ≃ 1,5–2 granulosis vel guttulatis. 7297

Hab. in foliis Rumicis Britannicæ, Manhattan, Kansas Amer. bor. (W. T. Swingle).

50. **Ramularia? Euphorbiæ** (Cast.) Sacc. *Botrytis* Cast. Cat. pl. Mars. II, p. 81. — Cæspitulis effusis, albis; hyphis parce ramosis, ramulis subdistantibus; conidiis cylindraceis, truncatis obtusisve. 7298

Hab. in foliis vivis Euphorbiæ Pepli pr. Marseille Galliæ.

III. *In Monocotyledoneis.*

51. **Ramularia subrufa** Ell. et Helw. Journ. Myc. 1888, p. 2. — Hypophylla, mox subseriata, confluens, subrufa v. grisea, margine pallidior; hyphis sterilibus intertextis, ramosis, prostratis, fertilibus fasciculatis, 25–35 ≃ 3, continuis, supra plus minus denticulatis v. lobatis; conidiis copiosis, oblongo-cylindraceis, concatenatis, 1-3 (sæpius 1-)septatis, 15-25 ≃ 3,5–4, apice obtuse acuminatis, sæpius rectis, pallide hyalino-flavidis. 7299

Hab. in foliis vivis Smilacis, Decorah, Jowa Amer. bor. (E. W. Holway).

52. **Ramularia Dioscoreæ** Ell. et Ev. Proc. Acad. Phil. 1891, p. 85. — Cæspitulis hypophyllis, parvis, albidis, in folii superficie supra leniter flavo-tincta crebre sparsis; hyphis fertilibus erectis, 25–35 ≃ 4, supra sæpius denticulatis; conidiis oblongo-cylindraceis, obtusis, 1-septatis, 15–20 ≃ 3,5–4,5. 7300

Hab. in foliis Dioscoreæ villosæ, Racine, Wis. Amer. bor. (J. Davis).

53. **Ramularia Alismatis** Fautrey in Rev. Myc. 1890, p. 125. — Maculis orbicularibus, numerosis, sæpe confluentibus; cæspitulis confertis, totam maculam tegentibus; hyphis brevissimis; conidiis cylindraceis, obtusiusculis, simplicibus, guttatis, 18-22 ≃ 4. 7301

Hab. in foliis Alismatis Plantaginis, Noidan, Côte-d'Or Galliæ (F. Fautrey).

54. **Ramularia Junci** Peck 44 Rep. pag. 26. — Maculis transversis, brunneis; hyphis brevissimis; conidiis cæspitosis, tenuissimis rectis v. curvis, unum apicem versus sæpe subangustatis, 25-50 μ. long. 7302

Hab. in foliis vivis Junci marginati, Selkirk Amer. bor.

55. **Ramularia canadensis** Ell. et Ev. Proc. Acad. Phil. 1891, p. 84. — Maculis nigris, subellipticis, 1-2 mm. long. v., si confluentibus, 0,5-1 cm., centro albicantibus; hyphis subulatis, hyalinis, continuis, 30-40 × 3-4, e centro macularum assurgentibus; conidiis acrogenis, 2-3-concatenatis, oblongis, 1-septatis, guttatis, hyalinis, 15-22 ≃ 5-6. 7303

Hab. in foliis vivis Caricis conoideæ, London Canada Amer. bor. (Dearness). — Affinis *Septocylindrio caricino* sed hyphæ valde evolutæ, basidia subulata et conidia 1-septata, crassiora.

56. **Ramularia graminicola** Peck 44 Rep. pag. 26, tab. IV, fig. 1-3. — Maculis parvis numerosis, irregularibus vel subellipticis, pallidis, margine indeterminato, brunneolo, lato cinctis; hyphis amphigenis, brevibus, hyalinis, 12,5-25 μ. long.; conidiis subcylindraceis v. fusoideis, interdum utrinque acuminatis, demum spurie 1-septatis, hyalinis, 25-35 μ. long. 7304

Hab. in foliis vivis Poæ serotinæ, Wilmurt lake Americæ borealis.

PIRICULARIA Sacc. Syll. IV, p. 217.

1. **Piricularia Oryzæ** Cav. Fung. Long. exs. n. 49. — Folicola; maculis oblongis, arescentibus, fusco-cinctis; hyphis teretibus vel tereti-subulatis, basi paullum incrassatis, ibique septatis, sursum septis nullis vel obsoletis, 60-120 ≃ 4-5; conidiis obclavatis, apice attenuatis, basi truncatis vel in brevem denticulum productis, 2-septatis, fuscidulis, diaphanis, 20-22 ≃ 10-12. 7305

Hab. in foliis vivis Oryzæ sativæ, Trovamala in Agro ticinesi Ital. bor.

CERCOSPORELLA Sacc. Syll. IV, p. 218.

1. **Cercosporella chionea** (E. et Kell.) Sacc. *Cercospora chionea* E. et Kell. Bull. Torr. Bot. Cl. XI, p. 122. — Amphigena sed sæpius epiphylla; maculis latis 0,5-1 cm. vel confluendo 8-4 cm. diam., obscure rufo-brunneis, zona brunneo-flavicante, non elevata cinctis; hyphis dense cæspitulosis, subhyalinis, 18-30 × 4-5, subinde vero 35-40 μ. longis et leniter undulatis vel sursum curvis; conidiis vermicularibus vel clavato-cylindraceis, 54-90 × 4-5, 3-8-septatis. 7306

   Hab. in foliis Cercidis canadensis, Kansas Amer. bor. — Sistit pruinam albam in maculis atris.

2. **Cercosporella pirina** Ell. et Ev. Proc. Acad. Phil. 1891, p. 91. — Hypophylla, effusa, maculis nullis definitis, initio inæqualiter cæspitulosa, dein folium fere totum occupans et decolorans, supra vero rubro-infuscans; hyphis fertilibus effusis, brevibus, 12-25 × 5, hyalinis; conidiis oblongo-fusoideis vel vermicularibus, hyalinis, 3-6-septatis, utrinque obtusis. 7307

   Hab. in foliis Piri coronariæ, Racine Wis. Amer. borealis (Davis).

3. **Cercosporella Evonymi** Erikss. in Bot. Centralbl. 1891, III, p. 299. — Maculis epiphyllis, subcircularibus v. angulosis, 4-10 mm. diam., expallentibus, purpureo-marginatis; cæspitulis pulvereis, fasciculatis, albis; hyphis assurgentibus, septatis, hyalinis; conidiis vermicularibus curvulis, usque semicirculari-arcuatis, utrinque obtusulis, 2-3-septatis, 40-44 × 3, hyalinis. 7308

   Hab. in foliis Evonymi europæi in Scandinavia.

4. **Cercosporella stomatophila** Speg. F. Guar. II, n. 184. — Acervulis hypophyllis e stomatibus epidermidis penicillatim protrudentibus, minutissimis, 50-60 μ. diam. candidis; hyphis e tuberculo atro, subgloboso, 40-50 μ. diam., stomate innato exsurgentibus, breviusculis, 20-25 × 4, rugulosis, noduloso-denticulatis, continuis hyalinis; conidiis cylindraceis, e denticulis hypharum oriundis, utrinque rotundatis, 20-30 × 2-2,5, medio 1-septatis, non constrictis, hyalinis. 7309

   Hab. ad folia viva Sapindaceæ cujusdam in dumetis pr. Guarapi Brasiliæ.

5. **Cercosporella rosea** Wint. Exot. Pilze IV, p. 9. — Cæspitulis delicatissimis, hypophyllis, minutis, angulato-rotundatis, tomentosulis, roseis, 0,5-1 mm. lat.; hyphis repentibus, dense intertextis, hyalinis, parce septatis, ramulos erectos, subsimplices, apicem versus 7310

denticulatos torulososque, hyalinos, septatos, 4–4,5 cr. emittentibus; conidiis angustissime subclavatis, sursum perparum attenuatis, remote pluriseptatis, hyalinis, 75-80 ≃ 4,5-5.

Hab. in foliis vivis Phaseoli sp., Montevideo Amer. austr. (ARECHAVALETA).

6. **Cercosporella Saxifragæ** Rostr. Bidr. Ascom. Dovr. p. 13. — Macula fusca, amphigena; cæspitulis, biogenis, candidis; hyphis longis, breviter ramosis; conidiis filiformibus, continuis, 30-40 ≃ 1-2. 7311

Hab. in foliis vivis Saxifragæ cernuæ, Dovre Norvegiæ.

7. **Cercosporella pantoleuca** Sacc. — Syll. IV, p. 219 — Var. **santonensis** Brun. Misc. Myc. II, p. 47. — Maculis angulosis, subrotundis v. irregularibus, olivaceis vel brunneis, margine saturatioribus; cæspitulis arachnoideis, albis; hyphis continuis, hyalinis, apice denticulatis; conidiis cylindraceis, rectis, hyalinis, 30-85 ≃ 2,5-3, obscure septatis vel guttatis. 7312

Hab. in foliis Plantaginis majoris, Cravans Galliæ.

8. **Cercosporella Phyteumatis** (Frank) Sacc. *Cercospora* Frank Krankh. Pflanz. p. 601. — Maculis nigris, centro albidis, amphigenis; hyphis hypophyllis cæspitosis; conidiis linearibus, 2-3-septatis, hyalinis. 7313

Hab. in foliis Phyteumatis spicati in Germania.

9. **Cercosporella Gossypii** Speg. Guar. I, p. 162. — Maculis nullis, mycelio hypophyllo, candido, plagulas effuso-pulverulentas, parvulas, 1-2 mm. diam., sæpe confluentes, irregulares efficientibus; hyphis in cæspitulos laxe aggregatis, simplicibus, erectis, rectiusculis, laxe parceque nodulosis, apice obtusiusculis, 35-40 ≃ 3, hyalinis; conidiis cylindraceo-ellipticis v. subclavulatis, medio 1-raro 2-septatis, non v. vix subcoarctatis, utrinque acutiusculis, 18-25 ≃ 3-4, hyalinis. 7314

Hab. ad folia Gossypii sp. pr. Paraguari Brasiliæ.

10. **Cercosporella Oxyriæ** Rostr. Till. Groenl. Svamp. p. 629. — Maculis amphigenis, albis, 2–3 mm. lat., orbicularibus, violaceo-marginatis; cæspitulis hypophyllis; conidiis filiformibus, leniter flexuosis, longissimis, 70-100 ≃ 2, continuis. 7315

Hab. in foliis Oxyriæ digynæ, Tunugdliarfik Groenlandiæ (K. ROSENVINGE). — « Verisimiliter non diversa a *Ramul. Oxyriæ* Trail, sed revera potius *Cercosporella* ».

11. **Cercosporella Pseudoidium** Speg. Guar. I, p. 162. — Maculis epiphyllis, pallescentibus, indeterminatis, suborbicularibus, parum manifestis, mycelio hypophyllo, tenuissimo, adnato, laxe arachnoideo, 7316

effuso, plagulas albas, suborbiculares, sæpe totum folium ambientes, efficientibus; hyphis sterilibus repentibus, dense intricato-ramosis, parce septulatis, gracilibus, 5 μ. cr.; hyphis fertilibus, hinc inde adsurgentibus, erectis, rectis v. modice parceque nodulosis-subgeniculatis, apice nodulosis, 30–80 × 5, continuis v. 2–3-septatis, hyalinis; conidiis clavulatis v. vix inæquilateralibus, nubilosis vel granulosis hyalinis.

Hab. ad folia Manihot utilissimæ pr. Mbocaiatá et Caáguazú Brasiliæ.

12. **Cercosporella Veratri** Peck 44 Rep. p. 27, t. IV, f. 7–8. — Maculis suborbicularibus v. subellipticis, nigrescentibus; hyphis brevissimis, fere obsoletis; conidiis 50–100 × 4–5. 7317

Hab. in foliis Veratri viridis, Morehouseville Amer. bor.

13. **Cercosporella hungarica** Bäuml. F. Schemn. p. 10. — Maculis griseis, subrotundatis, fusco-limitatis; hyphis fertilibus dense fasciculatis v. solitariis, continuis, apice rotundatis, 10–24 × 5–6, hyalinis; conidiis clavatis, curvatis, distincte 3–5-septatis, 40–80 × 2–6 (6 μ. cr. in clavula), hyalinis. 7318

Hab. in foliis Lilii Martagonis pr. Prencow Hungariæ.

14. **Cercosporella liliicola** (Rich.) Sacc. *Cercospora* Rich. Cat. Champ. Marn. n. 2032. — Cæspitulis parcis; hyphis erectis fasciculatis, 2–3-septatis, hyalinis; conidiis elongato-fusoideis, hyphas æquantibus, hyalinis, 6–7-septatis. 7319

Hab. in caule Lilii candidi, St. Amand Marne Galliæ.

15. **Cercosporella? guaranitica** Speg. F. Guar. II, n. 183. — Cæspitulis candidis, hinc inde densiuscule aggregatis, minutis; hyphis cylindraceis, rectis v. flexuosulis, teretibus, 60-80 × 5, 2–5-septatis, non constrictulis, sursum parce nodulosis, hyalinis; conidiis fusoideis vel cylindraceo-fusoideis, rectis, v. arcuatis, utrinque obtuse acutatis, 40–60 × 4–5, continuis, granuloso-farctis, hyalinis. 7320

Hab. ad ostiola Phomatosporæ botryosphæroidis Speg., sociâ *Nectriâ guaranitica* Speg., ad ramulos dejectos putrescentes pr. Guarapi Brasiliæ. — Species fere anomala potius ad *Fusarium* referenda, statum conidicum unius v. alterius fungilli, cum quibus est consociata, sistens.

FUSOMA Corda — Sacc. Syll. IV, p. 220.

1. **Fusoma triseptatum** Sacc. sp. nov. — Cæspitulis hypophyllis in areolis adusto-nigricantibus oblongis adnatis, applanatis, pelliculiformibus, albis, margine haud byssino; conidiis fasciculatis fusoideis, 7321

curvulis, apice acutioribus, 2-septatis, 25-30 × 4, granulosis, hyalinis, ad septa non vel vix constrictis; basidiis brevibus crassis, ovato-piriformibus, stipitatis, 12 × 4.

Hab. in foliis vivis graminum, e. g. Calamagrostidis pr. Nossen Saxoniæ (KIRGER, comm. BRESADOLA).

2. **Fusoma punctiforme** Karst. Symb. Myc. Fenn. XXVII, p. 35. — 7322
Cæspitulis gregariis, minutissimis, albis vel albidis, liberis; conidiis fusoideo-bacillaribus, curvis, continuis v. 1–3-septatis, utrinque acutis, hyalinis 17–30 × 1,5–5.

Hab. in foliis putridis Iridis Pseudacori pr. pagum tammelensem, Kojo Fenniæ.

SEPTOCYLINDRIUM Bon. — Sacc. Syll. IV, p. 223.

1. **Septocylindrium olivascens** Thuem. M. U. n. 1570 et Diagn. p. 11. 7323
— Maculis epiphyllis, plus minus orbiculatis, sæpe nervum medium sequentibus confluentibusve, olivaceis, tenuissimis; hyphis longis, simplicibus arcuato-subcontortis v. flexuosis, articulatis, ad septa non constrictis, fuscis, 8-10 μ. cr.; conidiis acrogenis, concatenatis, cylindraceis v. cylindrico-ellipsoideis, plerumque subrectis, utrinque subrotundato-obtusis, 2-3-5-septatis, 30-60 × 12, pallide fuscidulis.

Hab. ad folia viva Elæagni angustifolii, Lyon Galliæ (J. THERRY).

2. **Septocylindrium Ranunculi** Peck — Syll. II, p. 223. — Var. **Veronicæ** Br. et Har. Rev. Myc. 1891, p. 18. — Maculis albo-griseis, amphigenis, obscure limitatis; hyphis hypophyllis, hyalinis, remote septatis, non constrictis, rectis v. subflexuosis, 30-60 × 4-5; conidiis oblongis v. cylindraceis, obtusis, hyalinis, granulosis, nunc distincte 1-septatis et subconstrictis, nunc parum distincte 2–3-septatis, 16-28 × 5-7. 7324

Hab. in foliis ægrotantibus Veronicæ agrestis, Ville-sur-Terre, Aube Galliæ (P. HARIOT).

Sect. 4. **Staurosporæ** SACC.

TRINACRIUM Riess — Sacc. Syll. IV, p. 231.

1. **Trinacrium minus** Speg. F. Fueg. n. 436. — Hyphis repentibus, 7325
hyalinis, gracillimis, 2–3 μ. cr. longiusculis, parce septulatis ac ramosulis, mox mucoso-diffluentibus, hyalinis; conidiis sparsis vage insertis, tri-radiatis, radiis divaricatis, apice attenuato-acutatis, 20–25 × 2, dense guttulatis, hyalinis.

Hab. in Fumagine pannosa parasitica ad folia viva Pernettiæ mucronatæ in Staten island in Fuegia. — A *Tr. subtili* Rees an satis distinctum?

TITÆA Sacc. Syll. IV, p. 231.

1. **Titæa Clarkeæ** Ell. et Ev. Proc. Acad. Phil. 1891, p. 86. — Cæspitulis punctiformibus v. elongatis, 0,5–1 mm. long., albis, adpressis; conidiis hyalinis dense gregariis, quadrilocularibus, loculis binis verticaliter superimpositis, superiore globoso-ellipsoideo 7–9 μ. diam., inferiori subovato angustiore, utrinque appendice curvula divaricata cuspidata 40–45 μ. long. prope basim biconstricta 4 μ. cr. aucto, basidiis e strato cellulari assurgentibus, monosporis, 15–25 × 3, quater v. quinquies constrictis. 7326

Hab. parasitica in Dichæna strumosa ad Quercum ilicifoliam, Vineland N. J. Amer. bor. (Domina C. H. Clarke).

DESMIDIOSPORA Thaxt. Bot. Gaz. 1891, p. 203 (Etym. *Desmidium* et *spora*). — Hyphæ hyalinæ ramosæ, septatæ. Conidia dimorpha, in eodem mycelio. Microconidia minuta, subfusoidea, hyalina, in apice basidii lateralis subulati basi inflati acrogena. Macroconidia majuscula, terminalia, applanata subdisciformia, peripherice subdichotome lobata, intus multilocularia, rufo-brunnea. — Genus prædistinctum.

1. **Desmidiospora myrmecophila** Thaxt. loc. cit. t. XX, f. 1–9. — Effusa, flocculosa, alba; hyphis valde ramosis; microconidiis fusoideis 12 × 2–2,5; macroconidiis initio clavatis dein sensim dilatatis, demum discoideis inæqualiter multilocularibus 80–100 × 68–90, 12–14 μ. cr. (e latere), radiatim lobatis, rufo-brunneis, lobis 15–24 variæ profunditatis, apice rotundatis. 7327

Hab. in corpore Formicæ cujusdam majoris, Connecticut Americæ borealis.

Sect. 5. Helicosporæ Sacc.

HELICOMYCES Link — Sacc. Syll. IV, p. 233.

1. **Helicomyces? larvæformis** Speg. Guar. I, pag. 158. — Subiculo latissime effuso, crassiuscule pulvinato, 0,5–1 mm. cr., gossypino- v. arachnoideo-pulverulento, friabilissimo, amœne pallideque carneo vel subaurantio-roseo; hyphis non visis; conidiis ferri equini instar arcuatis v. annulato-incurvis fusoideis, antice attenuatis, po- 7328

stice subcuneatis, utrinque obtusiuscule acutatis, guttulis ventralibus 3 v. 5 cuboideis v. subconicis donatis, 20–25 ≈ 10, hyalinis.

Hab. ad ramulos hypertrophicos et baccas Strychnodaphnes suaveolentis pr. Mbatobí et Guarapí Brasiliæ.

CLATHROSPHÆRA Zalewski, Przyczynki etc. Krak. 1888, cum tabulis, (polonice). — Videretur mucedinea dimorpha, helicospora et clathrospora, sed ignoto mihi idiomate polonico et deficiente diagnosi latina, stirps mihi non clara.

Fam. 2. **Dematieæ** Fr.

Sect. 1. **Amerosporæ** Sacc.

Subsect. 1. **Micronemeæ** Sacc.

Trib. 1. Coniosporieæ Sacc.

CONIOSPORIUM Link — Sacc. Syll. IV, p. 238.

I. *In Dicotyledoneis.*

1. **Coniosporium nitidum** Karst. in Rev. Myc. 1885, p. 107. — Cæspitulis epiphyllis, minutis, punctiformibus, sparsis, hinc inde gregariis vel confluentibus, atris; conidiis ovoideis, nitidis, atris (sub microscopio fuscis), 30–33 ≈ 15–18; hyphis obsoletis. 7329

Hab. in foliis languescentibus Viciæ sativæ, Mustiala Fenniæ.

2. **Coniosporium Angelicæ** Rostr. Bidr. Ascom. Dovr. p. 13. — Cæspitulis effusis, nigro-olivaceis; conidiis globosis, olivaceis, 4 μ. diam., sporophoris brevissimis, hyalinis. 7330

Hab. in caulibus Archangelicæ officinalis, Dovre Norvegiæ (Blytt).

3. **Coniosporium caulincolum** Rich. Cat. Champ. Marn. n. 1937. — Acervulis nigris, maculiformibus; conidiis amygdaloideis, hyalinis, dein brunneis; sporophoris brevibus e strato submucoso oriundis. 7331

Hab. in caulibus emortuis Resedæ luteolæ pr. St.-Amand, Marne Galliæ.

4. **Coniosporium carbonaceum** (Carm.) Cooke Grev. XVI, p. 79, *Gymnosporium* Carm. herb. — Epiphyllum, effusum, nigrum, capnodioides; conidiis ovoideis vel limoniformibus, continuis, brunneis, opacis, 12 ≈ 10. 7332

Hab. in foliis Spirææ Ulmariæ, Appin Britanniæ (Carmichael). — Conidia sporidiis *Chætomii* similia.

5. **Coniosporium Fairmani** Sacc. Journ. Myc. 1889, p. 78 et p. 180, 7333
Fairm. Contr. Myc. West. N. Y. p. 52, f. 14–15. — Effusum, atrum, adpressum, pulvereum; conidiis globosis, levibus, fuligineis, 1-nucleatis, 5-7 μ. diam.

Hab. in cortice Cucurbitæ (*Hubbard squash*) intemperiei exposito, Lyndonville N. Y. Amer. bor. (C. E. Fairman). — A *C. apiosporoide* differt præ ceteris conidiis multo minoribus.

6. **Coniosporium pterospermum** Cooke et Mass. Grev. XIX, p. 90. — 7334
Cæspitulis gregariis, minutis, erumpentibus, ellipticis v. elongatis, nigricantibus; conidiis ambitu subglobosis v. oblongis, compressis, membranaceo-marginatis, in appendices emarginato-truncatas subsenas productis, olivaceo-brunneis, continuis, 12 μ. diam. vel 25 μ. diam., cum appendicibus; basidiis brevibus hyalinis e pseudostromate pulvinato oriundis.

Hab. in Lepidospermo, Victoria Australiæ (Martin). — «Ob conidia alata prædistincta species, immo novi generis (*Pteroconium* Sacc.) typus».

7. **Coniosporium corticale** Ell. et Ever. Journ. Mycol. 1889, p. 69. — 7335
Brunneo-nigrum, pulvereum, subcorticale; conidiis globosis, 3-4 μ. diam. v. ellipsoideo-ovatis, 4,5-5 ≃ 3-4.

Hab. in cortice Aceris, London Canada Amer. bor.

8. **Coniosporium incertum** Karst. in Rev. Myc. 1885, p. 107. — Cæ- 7336
spitulis superficialibus, minutis, punctiformibus, sparsis v. subgregariis, atris; conidiis sphæroideo-ellipsoideis v. subsphæroideis, hyalinis, coacervatis, dilutissime fuligineis (sub lente) 2-3 ≃ 1-2.

Hab. in ligno vetusto Sorbi Aucupariæ, prope Mustiala Fenniæ.

9. **Coniosporium subgranulosum** Ell. et Ev. Proc. Acad. Phil. 1891, 7337
p. 87. — Cæspitulis minutis, nigris, gregariis, pulvinatis e conidiis leniter adhærentibus, subglobosis, granuloso-rugosis, brunneis, 4-5 μ. diam., raro connato-binis ideoque simulate 1-septatis, efformatis.

Hab. in ligno decorticato Populi, Sand Coulee, Cascade Co., Montana Amer. bor. (F. W. Anderson). — Ad *Torulam* vergens.

10. **Coniosporium stromaticum** Corda — Syll. IV, p. 240. — ***subre-** 7338
ticulatum Karst. Symb. Fenn. XXVI, p. 31. — Cæspitulis superficialibus, gregariis, sæpe confluentibus, minutis, laxis, rotundatis, atris; conidiis sphæroideis v. subsphæroideis, subreticulatis, fuligineis, semipellucidis (sub lente), 20-30 μ. diam.; hyphis sparsis, diffusis, tenerrimis, 1 μ. cr., hyalinis.

Hab. ad asseres Pini silvestris, prope pagum Tammela Fenniæ.

11. **Coniosporium parallelum** Karst. Hedw. 1889. — Cæspitulis superficialibus, gregariis, subinde confluentibus, parallelis, linearibus, rarius elongatis v. rotundatis, pulverulentis, atris, minutis; conidiis globulosis, fuligineis (sub micr.), impellucidis, 6-12 μ. diam. 7339

Hab. in ligno sicco arborum acerosarum? ad Rio de Janeiro.

II. *In Monocotyledoneis.*

12. **Coniosporium? myocoproides** Speg. F. Guar. II, n. 186. — Cæspitulis hypophyllis superficialibus, hemisphærico-orbicularibus, minutis, 150-250 μ. diam. atris, compactiusculis, sparsis vel sæpius pluri-aggregatis v. subconfluentibus; hyphis e centro basali radiatim enatis brevissimis, gracilibus, 10-15 ≃ 3-4, septulato-subtoruloſis, mox dense toruloso-dichotomis, articulis gradatim in conidia mutatis; conidiis globosis, 4-5 μ. diam. catenulatis, glabris, levibus fuligineis. 7340

Hab ad folia emortua v. languida Cocoës australis in Sierra de Peribebuy Brasiliæ.

13. **Coniosporium Agaves** Passer. F. N. IV, n. 133. — Cæspitulis punctiformibus fuscis, in macula discoidea albida, solitariis v. maculis pluribus confluentibus, gregariis; conidiis globosis, olivaceis vel fuligineis, 4-5 μ. diam. 7341

Hab. in foliis putridis Agaves americanæ, Roma. — Perithecia plane deficientia. An *Papularia concentrica* Kickx?, sed conidia semper globosa et maculæ haud zonatæ obstare videntur.

14. **Coniosporium Cerealis** Karst. Symb. XX, pag. 109. — Acervulis superficialibus, minutissimis, punctiformibus, discretis v. confluentibus, atris; conidiis perfecte sphæroideis, subolivaceis, diaphanis, episporio obscuriore (sub micr.), 2-2,5 μ. diam. 7342

Hab. in foliis juvenilibus, languescentibus Secalis Cerealis ad Mustiala Fenniæ. — A *Coniosporio gramineo* minutie omnium partium diversum.

15. **Coniosporium Arundinis** (Corda) Sacc. Syll. IV, p. 243. — Var. **Secalis** Karst. Hedw. 1888, p. 104 et Symb. XXII, pag. 147. — Acervulis elongatis, secus culmorum fibras parallele seriatos digestis v. effusis, pseudostromate insidentibus, sphæroideis v. late ellipsoideis, maturis luce directa aterrimis, nitidis, luce refracta atro-olivascentibus, prope marginem zona angustissima dilutiore cinctis, eguttulatis, 6-10 μ. diam. v. 10-12 ≃ 7-10. 7343

Hab. in culmis vaginisque putrescentibus Secalis Cerealis ad Vasam Fenniæ.

III. *In Acotyledoneis et aliis substantiis.*

16. **Coniosporium phyllophilum** Karst. Hedw. 1890, p. 178, Fragm. myc. XXX. — Conidiis ellipsoideis v. ovoideis, fuscis, impellucidis (sub micr.), 10-12 ∞ 6-8, stratum superficiale, fuliginosum, pulvereum, tenuissimum, acervulosque sparsos punctiformes, inæquales, atros opacos formantibus; hyphis parum notabilibus. 7344

Hab. in pag. sup. foliorum vivorum Polystichi, Tradescantiæ, Cyrtomii, Antigoni, Dracænæ, Araliæ in horto mustialensi Fenniæ (O. Karsten).

17. **Coniosporium Polytrichi** Peck 43 Rep. p. 29. — Acervulis minutis, 75–100 μ. diam., dense gregariis, superficialibus, nigris; conidiis globosis, granulosis, nigris, 16-20 μ. diam. 7345

Hab. in urnis Polytrichi juniperini, Sevey Amer. bor.

18. **Coniosporium mycophilum** Ell. et Langl. Journ. Myc. 1890, p. 35. Maculiforme, sparsum vel confluens, 1 mm. diam., nigro-olivaceum; conidiis ellipsoideis, olivaceo-atris, levibus, 8 ∞ 4. 7346

Hab. in pileo Polysticti pergameni et Lentini ursini, Louisiana Amer. bor. (Langlois).

19. **Coniosporium Richardi** Brun. Champ. Saint. VII, p. 6. — Cæspitulis irregularibus, elongatis vel confluentibus, crustaceis, nigris; conidiis primo subglobosis, continuis, eguttulatis, brunneis, 7–8 ∞ 5, interdum ovoideis, 12 ∞ 5. 7347

Hab. in fragmentis funis putris, La Rochelle pr. Saintes Galliæ, interdum socia *Rosellinia* quadam, peritheciis sterilibus gregariis et fragilibus, verisimiliter var. *R. chordicolæ* Sacc.

Trib. 2. Toruleæ Sacc.

TORULA Pers. em. Sacc. Syll. IV, p. 249.

1. **Torula Broussonetiæ** Thüm et Boll. Contr. Fungh. litt. Austr. III, p. 4. — Cæspitibus expansis effusisque, tenuibus, laxis, sordide griseo-atris; catenulis brevibus, plerumque subrectis, sed interdum etiam sinuosis; conidiis applanato-globulosis, unicellularibus, pallide fuscis, 3–4 μ. diam., subdiaphanis. 7348

Hab. in ramulis emortuis Broussonetiæ papyriferæ in agro Goritiæ.

2. **Torula obducens** Karst. Symb. Myc. Fenn. XXV, p. 26. — Ramos late ambiens et crustam tenuem, atram, effusam formans; hyphis sterilibus decumbentibus, articulatis, hyalinis; catenulis ut plurimum 10-sporis, simplicibus vel ramosis, curvatis vel flexuosis, sæpe connatis; conidiis primitus hyalinis, ellipsoideis, dein fuligineis, pellucidis (sub micr.), 4-8 μ. diam., sat facile secedentibus. 7349

Hab. ad corticem semivivum Populi tremulæ, Mustiala Fenniæ.

3. **Torula ignobilis** Karst. et Har. Journ. Bot. 1890, p. 362. — Cæspitulis effusis, admodum tenuibus, atris vel fusco-atris; catenulis adscendentibus vel curvulis, simplicibus, 2-6-meris; conidiis sphæroideis, rarius ovoideis, 1-guttatis, ex hyalino fuligineis, pellucidis, 6-9 μ. diam. 7350

Hab. in cortice Ulmi consumpti, Méry-sur-Seine Galliæ.

4. **Torula tuberculariæformis** Rich. Cat. Champ. Marn. n. 1944. — Acervulis nigris, discoideis, superficie albo-pulverulentis («?»); conidiis globoso-cuboideis, catenulatis, in fasciculos dense connexis; sporophoris septulatis catenas æquantibus. 7351

Hab. in ligno putri Salicis, St.-Amand Marne Galliæ. — Sec. auct. potius *Tuberculariacea.* «An *Trullula?*»

5. **Torula gyrosa** Cooke et Mass. Grev. XVI, p. 10. — Punctiformis, cæspitulosa, atra; conidiis subcuboideis, nucleatis, 3-4 in catenulas varie curvas connexis, pallide olivaceis, 12 ≃ 6-8, catenulis ipsis passim in series connexis. 7352

Hab. in ligno pineo putri, Kew Britanniæ.

6. **Torula olivacea** Corda — Syll. IV, p. 252 — ***T. inops** Karst. Hedw. 1890, pag. 272. — Cæspitulis effusis, tenuibus, olivaceo-atris; catenulis simplicibus quinque-decemsporis, pedicello nullo; conidiis sphæroideis vel ellipsoideis, eguttulatis, pellucidis, dilute olivaceo-fuligineis (sub lente), 7-9 μ. diam. vel 10-12 ≃ 7. 7353

Hab. in ligno vetusto Pini ad Mustiala Fenniæ.

7. **Torula ramosa** Peck 32 Rep. pag. 39. — Effusa, tenuis, nigra; hyphis septatis; conidiis in catenas terminales et laterales seriatis, globosis, coloratis, 7,5 μ. diam., 1-2 inferioribus interdum ellipsoideis vel piriformibus. 7354

Hab. in ligno pineo, Roth Greenbush Amer. bor.

8. **Torula densa** Karst. et Har. Journ. Bot. 1890, p. 362. — Cæspitulis rotundatis, confluentibus, crassiusculis, densis, non pulverulentis, superficialibus, atris, intus atro-fuscis, e conidiis parce con- 7355

catenatis vel conglobatis, sphæroideis vel difformibus, 10-17 ≈ 8-12, plus minus dilute fuligineis compositis.

Hab. ad Cereum alatum, Paramaribo Guyanæ batavæ (Kegel).

9. **Torula nucleata** Cooke Grev. XVI, p. 79. — Subeffusa, nigricans, minute cæspitulosa, mycelio repente; hyphis fertilibus basi tenuatis hyalinis, supra in conidia subglobosa, 6-8 persistenter catenulata, atro-brunnea, crasse 1-nucleata, 10-12 μ. diam. abeuntibus. 7356

Hab. in caulibus herbaceis, Shroffeld's Wood Britanniæ (F. Currey).

10. **Torula cyperina** Roum. et Pat. in Rev. Myc. 1885, p. 175, t. LV, f. 12. — Tenuissima, superficialis, elongata, inter nervulos foliorum insidens; mycelio pallide brunneo, radiante; hyphis brevibus, catenulas simplices, erectas conidiorum gerentibus; conidiis brunneis, levibus, applanatis, 4-5 ≈ 2. 7357

Hab. in foliis exsiccatis Cyperi longi circa Toulouse Galliæ.

11. **Torula Bambusæ** Pat. Bull. Soc. Myc. 1888, p. 125. — Orbicularis, nigra, pulverulenta, margine subdentritica; hyphis gracilibus, torulosis, brunneis; conidiis lenticularibus, brunneis, 8-10 μ. diam. 7358

Hab. in Bambusa putri, Caracas Venezuelæ.

12. **Torula alpina** Fourcade in Roum. F. G. n. 4188, *Torula Ramalinæ* Nyl. pr. p. — Cæspitulis nigris compactis, adpressis; conidiis inæqualiter globosis, basi truncatis, 8 μ. diam., in catenulas simplices digestis. 7359

Hab. in thallo Everniæ ochroleucæ, in rupibus Col de Venasque Pyrenæorum Hispan. (Ch. Fourcade).

13. **Torula opaca** Cooke in Ellis N. A. Fungi n. 759 (absque diagnosi). — Cæspitulis irregularibus, minutis, 1-2 mm. diam. adpressis aterrimis; mycelio obsoleto; conidiis tereti-oblongis vel subcuboideis, variis, 7,5-20 ≈ 7,5, nigris, opacissimis in catenulas breves rectas simplices digestis. 7360

Hab. in thallo lichenum ad ramos vivos v. emortuos variarum fruticum, Newfield N. J. Amer. bor. — *Tor. ovalispora* Berk. est, teste Cooke, vera *Torula* nec *Oospora;* cfr. Syll. IV, p. 13.

14. **Torula lichenicola** Linds. New lichenicol. microfung. p. 515 et 530, t. XXIII, f. 1-18. — Punctiformis, atra, in thallo vel apotheciis lichenum superficialis; sporophoris fasciculatis deorsum tenuatis subcontinuis, pallidis, sursum in conidia gradatim majora, oblongo-cuboidea, sæpe guttata utrinque obtusula, fuliginea, cya- 7361

neo- vel olivaceo-fusca, 7-12 ≃ 4, breviter catenulata abeuntibus, catenulis brevibus simplicibus rarissime furcatis.

Hab. in lichenibus plerumque corticolis Lecanoris, Lecideis, Physciis, Arthoniis, Parmeliis, Opegraphis, Verrucariis etc. in tota Europa

15. **Torula Darwinii** Speg. F. Fueg. n. 441. — Cæspitulis minutis superficialibus globuloso-hemisphæricis 250-300 μ. diam., atris compactiusculis dense sparsis; conidiis globulosis 10-15 μ. diam., grosse 1-guttulatis levibus fuligineis, primo conglobatis dein singulatim vel 2-3-tim secedentibus. 7362

Hab. ad Cyttariam Darwinii putrescentem ac dejectam in silvis prope Penguin rookery in Staten island Fuegiæ.

16. **Torula mycetophila** Cooke et Mass. Grev. XVI, p. 3. — Cæspitulis minutis, tenuissimis, sparsis, atris; hyphis parce ramulosis, subrectis; articulis globoso-compressis, arctissime constrictis atro-olivaceis, 10 μ. diam. 7363

Hab. in pileo Polysticti cinnabarini, Victoria Australiæ (Campbell). — *Torula spongicola* Duf., Syll. IV, p. 261. Nascitur quoque in spongis prope Livorno (Carnel, Martelli) et Padova (Saccardo). Conidia 6-7 μ. diam.

17. **Torula circinans** A. Roum. et Pat. in Rev. Myc. 1886, p. 156. — Conidiis globulosis, brunneis, sublevibus, catenulatis; catenulis 15-25 ≃ 5; hyphis fertilibus simplicibus, raro bifidis, densissimis, brunneis, circinatim dispositis, demum confluentibus. 7364

Hab. in tegulis marnaceis tecti equilis, Toulouse Galliæ (A. Roumeguère),

HORMISCIUM Kunze — Sacc. Syll. IV, p. 263.

1. **Hormiscium septonema** (Preuss) Karst., Syll. IV, p. 248 — var. **betulinum** Karst. Symb. myc. Fenn. XXV, pag. 25, *Hormiscium curvatum* (Peck) Sacc. var. *betulinum* Karst. Symb. XX, p. 97. — Cæspitulis late effusis, atris, catenis conidiorum rarissime ramosis, 60-90 μ. long.; conidiis subcuboideis, 4 μ. longis, 6 mm. crass. 7365

Hab. in cortice Betulæ prope Vasa Fenniæ.

2. **Hormiscium affine** Pass. in Brun. Misc. mycol. p. 21 — Effusum, superficiale, membranaceum, facile secedens, fuligineum, catenulis vage ramosis, ramis varie crassis, apice attenuatis, incurvis; conidiis globosis vel ovoideis, difficile secedentibus, magnitudine varia, majoribus guttulatis, fuliginosis. 7366

Hab. in folio Lauri?, Ile Mayotte Galliæ. — Catenulæ immaturæ? muco involutæ. *H. pityophilo* et *H. Lechleriano* affine.

3. **Hormiscium sorbinum** Karst. Symb. Myc. Fenn. XXIX, p. 105. — Cæspitulis subcutaneis, erumpentibus, gregariis, maculas atras demum totam superficiem fructuum inquinantes formantibus; hyphis sterilibus repentibus, ramosis, articulatis, hyalinis vel subfuligineis, 3-7 μ. cr.; hyphis fertilibus articulatis, fuligineis, brevibus; catenulis conidiorum brevibus, conglutinatis, globulos difformes formantibus; conidiis sphæroideis vel subsphæroideis, fuligineis (sub lente), 6-9 μ. diam. 7367

Hab. ad fructus Sorbi Aucupariæ in pr. Tammela Fenniæ.

4. **Hormiscium crustaceum** Karst. Symb. XIX, p. 90. — Effusum, crustaceum, pertenue, superficiale, olivaceum, siccando fuscum; catenulis cylindraceis, simplicissimis, curvatis vel flexuosis, subinde ascendentibus, æqualibus, 7-12-septatis, ad septa non constrictis, opacis, 28-75 ≃ 6-8; conidiis cuboideis, 1-guttulatis, fuligineis et diaphanis (sub lente), diu cohærentibus. 7368

Hab. in cortice ramorum emortuorum Pruni Padi, Mustiala Fenniæ.

5. **Hormiscium orbiculatum** Karst. Symb. XX, p. 97. — Cæspitulis gregariis, subinde confluentibus, superficialibus, orbiculatis, pulverulentis, nigris, circ. 1 mm.; conidiis in catenulas simplices vel ramosas, inæquales, curvatas vel flexuosas, breves, circ. 30 ≃ 7-8 digestis, subcuboideis, subæqualibus, connatis, fuligineis, impellucidis v. semi-pellucidis (sub vitro). 6369

Hab. in ligno denudato ramorum Salicis prope Mustiala Fenniæ.

6. **Hormiscium paradoxum** Karst. Symb. Myc. XXVI, p. 31. — Cæspitulis suborbiculatis, velutinis, aterrimis, 1-2 mm. latis; hyphis (seu catenulis) vage ramosis, conjunctis et curvatis, valde inæqualiter articulatis, 100-150 μ. longis, fuligineis, semipellucidis (sub lente), in conidia subsphæroidea vel ellipsoidea vel difformia, 10-25 ≃ 8-12 v. 6-8 μ. diam. tandem secedentibus. 7370

Hab. in pariete ligneo (abietino?) aqualiculi in Mustiala Fenniæ.

7. **Hormiscium scriptum** Karst. Symb. XIX, p. 90. — Cæspitulis puncti- vel striiformibus, atris; hyphis sterilibus obsoletis; catenulis simplicibus, flexuosis, semipellucidis, ex articulis 16-20 conjunctis, 60-75 ≃ 6-7; conidiis cuboideis, eguttatis, 3-6 ≃ 6. 7371

Hab. in Fomite nigricante emortuo ad Mustiala Fenniæ.

Subsect. 2. **Macronemeæ** Sacc.

Trib. 3. Periconieæ Sacc.

STACHYBOTRYS Corda — Syll. IV, p. 269.

1. **Stachybotrys elongata** Peck 43 Rep. p. 29, t. III, fig. 10-13. — 7372
Hyphis elongatis, intricato-ramosis, parce septatis, minute rugosis, cæspitulos brunneos, 2-6 mm. diam. efformantibus; hyphis fertilibus sterigmatibus plus minus elongatis, basi sæpius incrassatis v. bulbosis coronatis; conidiis globosis, coloratis, 6-7,5 μ. diam.

Hab. in ramis emortuis Aceris rubri, Manor Amer. bor.

2. **Stachybotrys atro-grisea** E. et E. Journ. Myc. 1888, p. 106. — 7373
Atro-grisea; hyphis sterilibus repentibus, ramosis, septatis, flavidis v. fumoso-hyalinis, 3 μ. cr., ramis fertilibus erectis, subalternis, apice basidiis obovato-oblongis, 8-10 ≃ 4-5, capitato-verticillatis coronatis; conidiis oblongo-ellipsoideis, 2-nucleatis, levibus, atro-brunneis, 7-8 ≃ 3,5-4,5.

Hab. in caulibus vetustis Lycopersici Louisiana Amer. bor. (Langlois). — Basidia infra flavido-hyalina, supra atra.

3. **Stachybotrys verrucosa** Cooke et Mass. Grev. XVI, p. 102. — 7374
Hyphis sparsis vel in cæspitulos minutos, atro-olivaceos collectis, erectis, geniculatis, quoque angulo breve ramulosis, laxe spiralibus, septatis, rugulosis, pallidis e mycelio hyalino, glabro, repente, ramoso assurgentibus, ramorum apicibus in verticillum 4-6 basidiorum clavatorum desinentibus; conidiis sphæricis, verrucosis, e nigro purpurascentibus, 10-14 μ. diam.

Hab. charta bibula uda (herbariorum), Kew London Brit. — Affinis *S. scabræ*.

4. **Stachybotrys asperula** Massee Grev. XVI, p. 26. — Effusa, atra; 7375
hyphis gregariis, repentibus, furcato-ramosis, assurgentibus, granulato-asperulis, sterigmatibus clavatis, capitato-coronatis; conidiis globosis, asperulis, 7-10 μ. diam., atro-fuscis, opacis.

Hab. in charta uda ex Ceylon, socio *Chætomio*, Kew London Brit. — Cl. Oudemans in Contr. Myc. Pays-bas XI, p. 48, recte proposuit divisionem generis *Stachybotryos* ut sequitur: I. *Stachybotrys* em. Mycelium repens, ramosum; hyphæ fertiles apice basidiis heterogeneis in verticillum partim connatis coronatæ (*S. atra* Corda, *S. alternans* Bon., *S. lobulata* Berk.). II. *Sterigmatobotrys* Oudem. l. c. Hyphæ erectæ, simplices, apice basidiis heterogeneis liberis coronatæ (*S. elata* (Sacc.) Oud., *S. papyrogena* (Sacc.) Oud.).

PERICONIA (Tode?) Bon. — Sacc. Syll. IV, p. 270.

1. **Periconia lateralis** Ell. et Ev. in Journ. of Myc. 1886, p. 104. — Hyphis fertilibus erectis, subulatis, septatis, opacis, 250-300 × 8-10 (ad basim), subrectis, lateraliter, prope apicem globulum brunneum conidiorum gerentibus; conidiis globosis, luteo-brunneis, echinulatis, 10-12 μ. diam., crasse nucleatis. 7376

   Hab. in caulibus herbaceis in Amer. bor. (Langlois).

2. **Periconia repens** Cooke Grev. XVI, p. 79. — Minute cæspitulosa, nigra; hyphis brevibus, flexuosis, simplicibus vel breve ramosis, crebre præsertim sursum septatis ibique isodiametrice articulatis, pallide brunneis, deorsum hyalinis, 8-10 μ. diam.; conidiis solitariis («?») apicalibus, globosis, atro-brunneis, opacis, 20-25 μ. diam. 7377

   Hab. in caulibus herbarum, Chislehurst Britanniæ (F. Currey).

3. **Periconia albiceps** Peck 32 Rep. p. 40, t. I, fig. 8-11 (icones non vidi). — Hyphis brevibus, 0,5-0,75 mm. alt., æqualibus v. sursum subattenuatis, capitulo albo, subgloboso; conidiis oblongis v. subfusoideis, hyalinis, 7,5-15 μ. long. 7378

   Hab. in caulibus emortuis Chelones glabræ, Sandlake Americæ borealis.

4. **Periconia opaca** Cooke Grev. XVI, p. 70. — Atra, gregaria; hyphis erectis 3-4-septatis, simplicibus, atro-fuscis, opacis, capitulo subgloboso e conidiis 5-6 composito; conidiis globosis, deorsum minute apiculosis, 12-15 μ. diam., atro-fuscis, opacis, levibus. 7379

   Hab. in foliis Caricum in Carolina inf. Amer. bor. (Ravenel).

HAPLOBASIDIUM Eriks. Bot. Centr. 1889, II, p. 786 c. ic., F. Scand. n. 300 (Etym. *haplos* simplex et *basidium*). — Hyphæ fertiles e mycelio endophyllo assurgentes breves, simplices, basidioideæ, apicem versus incrassatæ ibique 3-4 ramis conidiophoris coronatæ, demum replicatæ conidiisque elapsis, cicatricosæ. Conidia globosa, fuliginea, levia. — Hyphis fertilibus, simplicibus basidioideis, apiceque demum cicatricosis, ramis conidiophoris paucis conidiisque globosis a gen. affinibus distinguitur.

1. **Haplobasidium Thalictri** Eriks. l. c. — Biophilum; maculis effusis, supra folium exaridis, infra denigratis; hyphis fertilibus, 20-30 × 6-8, apiceque incrassato, 10-12 μ. cr.; conidiis globosis, 8 μ. diam. (an, ex icone, breve catenulatis?). 7380

   Hab. in foliis vivis Thalictri flavi, Stockholm Scandinavia.

ACROTHECA Fuck. em. Sacc. Syll. IV, p. 276.

1. **Acrotheca catenulata** Fautr. Rev. Myc. 1891, p. 13. — Hyphis 7381
longe lineatim cæspitosis, olivaceo-atris, sursum dilutioribus, simplicibus, septatis; conidiis mediocribus, curvulis, hyalinis, catenulatis, in apice hypharum acrogenis.

Hab. in Polysticho Filice-mare, Bois de Roches, Noidan, Côte-d'Or Galliæ. — «Ob conidia catenulata vix hujus generis».

GONATOBOTRYUM Sacc. Syll. IV, p. 278.

1. **Gonatobotryum dichotomum** Cooke et Mass. Grev. XVI, p. 15. — 7382
Effusum, fuscum; hyphis fertilibus erectis, septatis, bis terve dichotomis; conidiis ad angulos generatis, ellipticis, continuis, hyalinis v. pallide olivaceis, 15 ≃ 10, in glomerulos subglobosos digestis.

Hab. in substantiis amylaceis humiditate corruptis ex India. — Hæc species sistit novum subgenus ita definiendum: *Dichobotryum* Cooke. Hyphæ repetito dichotomæ, in quaque dichotomia capituliferæ.

Trib. 4. Arthrinieæ Sacc.

ARTHRINIUM Kunze — Sacc. Syll. IV, p. 279.

1. **Arthrinium naviculare** Rostrup Swampe fra Finmarken pag. 235 7383
(danice). — Conidiis navicularibus, brunneis, 40–50 ≃ 11–14.

Hab. in foliis Caricis vaginatæ in Dania.

2. **Arthrinium bicorne** Rostrup Swampe fra Finmarken p. 235 (da- 7384
nice). — Conidiis bicornibus, brunneis, 25–30 ≃ 8–9.

Hab. in foliis et scapis Junci compressi in Dania.

3. **Arthrinium ushuvaiense** Speg. in F. Fueg. n. 443. — Cæspitulis 7385
erumpenti-superficialibus, minutis, 400–500 μ. diam., atris, compactiusculis; hyphis cylindraceis, rectiusculis, simplicibus, hyalinis v. fuscidulis, gracilibus, 2,5–3 μ. cr., septis crassis, nigris, articulis subcoarctatis, 1-2-papillulato-nodulosis; conidiis cymbiformibus, utrinque attenuatis ac obtusis, 16–19 ≃ 5–6, primo pellucidis, fuligineis, dein opacis atris.

Hab. ad folia languida v. emortua Luzulæ antarcticæ pr. Ushuvaia Fuegiæ.

GONIOSPORIUM Link — Sacc. Syll. IV, p. 280.

1. **Goniosporium punctiforme** Speg. F. Fueg. n. 444. — Maculis pal- 7386
lescentibus amphigenis indeterminatis, parvulis; capitulis minutis,

350-550 μ. diam. sparsis, atris, compactiusculis; hyphis cylindraceis fuscidulis, 5-6 μ. diam., crasse denseque nigro-septatis, mox diffluenti-evanescentibus; conidiis polymorphis, globulosis, hemisphæricis, trigonis v. subcuboideis, 10 ≃ 7-10, primo pellucidis fuligineis, dein atris, opacis, angulis sæpius obtuse apiculatis.

Hab. ad folia languida v. emortua Caricis cujusdam in uliginosis in Gabel island Fuegiæ.

Trib. 5. Trichosporieæ Sacc.

VIRGARIA Nees — Sacc. Syll. IV, p. 280.

1. **Virgaria deflexa** (Preuss) Sacc., *Psilonia deflexa* Preuss F. Hoyersw. n. 62 et in Sturm Deut. Cryptogam. Fl. t. 19. — Cæspitulis magnis, tomentosis, atris, opacis; mycelio repente; hyphis confertis, atro-fuscis, sursum pallidioribus, erectis, simplicibus vel furcatis, septatis, obtusis; conidiis sparsis, obovatis, pallidis. 7387

Hab. in ligno Pini, Hoyerswerda.

2. **Virgaria salebrosa** (Preuss) Sacc., *Psilonia salebrosa* Preuss F. Hoyersw. n. 61. — Cæspitulis effusis, atro-fuscis; hyphis intricatis, ramosis, septatis, salebrosis, intense fuscis; conidiis ovatis, atro-fuscis, impellucidis, episporio hilo instructo, nucleo firmo. 7388

Hab. in lignis Alni, Hoyerswerda. — « An *Trichosporium?* ».

3. **Virgaria macrospora** Karst. Symb. Myc. Fenn. XXVII, p. 34. — Cæspitulis sat compactis, oblongatis v. subcircularibus, exiguis, 0,5 mm. latis, fuscis; hyphis congestis, erectis, simplicibus, septatis, subæqualibus, leviter flexuosis, fuligineis (sub lente), 4-6 μ. crassis; conidiis secus hyphas insertis, sphæroideis, subtilissime verruculosis, fuscis, impellucidis (sub lente), 12-18 μ. diam. 7389

Hab. in Polysticho spinuloso, Mustiala Fenniæ.

4. **Virgaria hydnicola** Peck 42 Rep. p. 32. — Hyphis minutis, furcatis v. trichotomis, brunneis, ramulis subulatis leniter divaricatis; conidiis globosis, minutis, 2,5-4 μ. diam. 7390

Hab. in Hydno quodam resupinato et albo, North Elba Americæ borealis.

STREPTOTHRIX Corda (nec Cohn) — Sacc. Syll. IV, p. 283.

1. **Streptothrix glauca** E. et E. Journ. Myc. 1888, p. 107. — Cæspitulis pulvinatis, 1 mm. cr., continuis v. interrupte confluentibus et plura cm. latis, albo-glaucis dein cinereis; hyphis valde et irregulariter ramosis, 6 μ. cr., extremitatibus liberis, crebre undulato-crispis, conidia globosa, 4,5-5 μ. diam. hyalina gerentibus. 7391

Hab. in caulibus Trifolii emortuis, Newfield, N. J. Amer. bor.

ZYGODESMUS Corda — Sacc. Syll. IV, p. 283 *).

1. **Zygodesmus indigoferus** Ell. et Ev. in Journ. of Myc. 1886. p. 149. 7392
— Stratum laxum, subtile, submembranaceum æruginosum, demum luteo-griseum, margine byssoideum efformans; hyphis fertilibus gracilibus, ramosis, septatis, circiter 3 μ. diam.; conidiis globosis, levibus; basidiis brevibus, 8–10 = 3.

Hab. in ligno putrescente, West Chester Amer. bor.

2. **Zygodesmus calosporus** Pat. Bull. Soc. Myc. 1888, p. 127, t. XX 7393
fig. 5. — Effusus, byssino-membranaceus, fulvo-carneus, margine fimbriato albo; hyphis septatis, hyalinis, ramosis, apicibus conidia bina-quaterna levia, majuscula, ovoidea v. subglobosa, 20–21 = 15–17, fulvo-rubescentia gerentibus.

Hab. in ligno putri, Atures Venezuelæ (Gaillard).

3. **Zygodesmus membranaceus** E. et E. Journ. Mycol. 1888, p. 54. 7394
— Late flavido-albus, submembranaceus; hyphis pallidis patenti-ramosis, 3-5 μ. cr., noduloso-septatis, intricatis; conidiis copiosis, subglobosis, 3 μ. diam., 3,5 = 3, levibus, subhyalinis.

Hab. in ligno putri Ottawa Canad. (Macoun) et Florida (Calkins). — *Corticiis* et *Rhinotrichis* subaffinis.

4. **Zygodesmus phyllophilus** Karst. et Har. Journ. Bot. 1890, p. 362. 7395
— Effusus, admodum tenuis, incanus; hyphis ramosis, articulatis, levibus, hyalinis, hinc inde unilateraliter inflatulis ibique imperfecte septatis, 3-6 μ. cr.; conidiis sphæroideis, echinulatis, flavescentibus, 6 μ. diam.

Hab. ad folia macerata prope Meudon Parisiorum Galliæ (Tulasne).

5. **Zygodesmus tuberculosus** Ell. et Ev. Proc. Phil. 1891, p. 87. — 7396
Cæspitulis tubercularibus, 0,5-1 mm. lat., dense confertis v. subconfluentibus, sordide albis; hyphis hyalinis, circ. 10 μ. cr., supra repetite ramosis, septatis, ramis erectis, ultimis obtusis, 10-12 μ. diam., apice sterigmata, 12-16 = 3 gerentibus; conidiis oblongis, hyalinis, 15-20 = 5-6.

Hab. in radicibus putribus, Newfield, New Jersey Amer. bor.

6. **Zygodesmus trachychætes** E. et E. Journ. Myc. 1888, p. 106. — 7397

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*) Ut pluries observavi, species hujus generis fere omnes prope *Hypochnum*, inter *Hymenomycetes*, aptius essent locandæ.

Pallide lilacinus, margine subflavescens; hyphis parce ramosis, 5-6 μ. cr., minute muricato-rugulosis, apicibus in basidia fasciculata rugulosa divisis; conidiis globosis, 6-7 μ. diam., echinatis in sterigmatibus longis, sæpe binatis, acrogenis.

Hab. in ramis pineis dejectis, Newfield, N. J. Amer. bor. — Hyphis parcius ramosis, muricato-rugulosis, conidiis perfecte globosis etc. a *Z. sublilacino* recedit.

7. **Zygodesmus limonisporus** Ell. et Ev. Proc. Acad. Phil. 1891, p. 87. 7398
— Tenuis, avellaneus; hyphis 6-8 μ. diam. subhyalinis, septatis, sursum valde ramosis et assurgentibus, ramis ultimis, 20-25 × 10, apice subincrassatis, obtusis et sterigmata 4, valida gerentibus; conidiis citriformibus, hyalino-flavidis, breviter pedicellatis, 7-9 × 5.

Hab. in ligno putri Aceris, London, Canada Americæ borealis (Dearness).

8. **Zygodesmus sublilacinus** Ell. et Holw. in Arth. Rep. Bot. Minnes, 7399
1886, p. 34. — Continuus, tenuis, pannosus, sordide lilacinus, margine pallidior; hyphis primariis valde ramosis, apicibus incrassatis; conidiis spicularibus; conidiis grosse echinatis, subirregularibus, circ. 7 μ. diam.

Hab. in ligno putri et in cortice Pini et Betulæ, Minnesota Americæ borealis.

9. **Zygodesmus Pirolæ** Ell. et Halst. Journ. Myc. 1890, p. 34. — Ef- 7400
fusus, thelephoroideus, incrustans, rubido-griseus; hyphis rubentibrunneis nodoso-septatis ramosis 3-4 μ. cr., ramosis, ramis sæpe rectangulo-patulis, apicibus in sporophora numerosa, brevia, obtusa divisis; conidiis subglobosis 8-10 μ. diam., spinuloso-rugosis, subhyalinis v. rubro-brunneis.

Hab. in petiolis (quos leviter torquet) Pirolæ rotundifoliæ, New Brunswick, N. J. Amer. bor.

10. **Zygodesmus guarapiensis** Speg. Guar. I, p. 162. — Acervulis 7401
dein superficialibus, 2-5 × 1-1,5 mm., ellipticis vel confluenti-linearibus atque longissimis, 0,2-0,3 mm. cr., subcrustaceo-pulverulentis, margine non v. vix repandis, obtusis, atris; hyphis paucis parum ramosis, repentibus, rectiusculis septatis, gracilibus, 1,5-2 μ. cr., laxe noduloso-tuberculatis, hyalinis; conidiis tuberculis hypharum adnatis, numerosissimis, globosis v. e mutua pressione angulosis v. elongatis, 5-9 × 3-5, sæpeque utrinque acutis ac inferne subapiculatis, opacis, olivaceis, levissimis.

Hab. ad culmos dejectos putrescentes Sacchari officinarum pr. Guarapi Brasiliæ.

11. **Zygodesmus stercorarius** Karst. Hedw. 1890 p. 178, Fragm. myc. XXX. — Cæspitulis effusis crustaceo-gossypinis, violascenti-cinereis, ambitu dilutioribus; hyphis intricatis, ramosis, septatis, hinc inde nodosis ibique refracto-septatis, hyalinis (sub lente), 5-7 μ. cr.; conidiis sphæroideis dilute fuligineo-flavidis, aculeatis, 6-7 μ. diam. 7402

Hab. in fimo equino, Mustiala Fenniæ.

TRICHOSPORIUM Fr. — Sacc. Syll. IV, p. 288.

1. **Trichosporium olivascens** Karst. Rev. Myc. 1889. — Late effusum, velutinum, laxum, griseo- vel olivaceo-fuscum; hyphis repentibus, intricatis, dichotome v. vage ramosis, parce septatis, fuligineis, (sub lente), pellucidis, ramulis ultimis subhyalinis, asperulis, 4-6 μ. crassis; conidiis ovalibus, levibus, hyalinis, in flavum levissime vergentibus, membrana obscuriore, eguttulatis, 6-8 ≃ 3-7. 7403

Hab. in ligno vetusto arborum frondosarum ad Mustiala Fenniæ.

2. **Trichosporium Evonymi** Oud. Contr. Myc. Pays-bas XII, pag. 33. — Mycelio atro-brunneo; hyphis ramosis, intertextis; conidiis globosis, brunneis, basi breviter attenuatis, 4-5 μ. diam., aliis 1-septatis, 10-12 * 4, utrinque rotundatis immixtis. 7404

Hab. in foliis Evonymi japonicæ, sociâ *Pestalozziâ neglectâ*, in Nederlandia.

3. **Trichosporium substrictum** Karst. Symb. XX, p. 107. — Effusum, flocculosum, griseo-fusum; hyphis furcatis parceque ramosis, septatis, rigidiusculis, demum fuligineis et impellucidis (sub lente) 5-7 μ. cr.; conidiis secus ramos digestis v. glomeratim inspersis, sphæroideis v. late ellipsoideis, levibus, dilute fuligineis et diaphanis, (sub vitro), 3-6 μ. diam. 7405

Hab. in caulibus siccis Ledi palustri prope pagum Sipilä haud procul a Mustiala Fenniæ.

4. **Trichosporium apiosporum** (B. et Br.) Mass. Journ. Myc. 1889, p. 186, t. XIV, f. 5, *Reticularia* B. et Br., Syll. VII, 1. n. 1427. — Late effusum, fulvum; hyphis agglutinatis in fasciculos dendritice radiantes; conidiis ex apice subpiriformi ramulorum oriundis, ellipsoideis, minute verrucosis, subhyalinis, 8-9 ≃ 5. 7406

Hab. in ligno emortuo, Ceylon, Carolina. — «An, ob colorem lætum, potius *Sporotrichi* species?»

5. **Trichosporium Curtisii** Mass. Journ. Myc. 1889, pag. 185, t. XIV, f. 3, *Reticularia affinis* B. et C., *R. atro-fusca* B. et C., *R. verruculosa* B. et C. — Syll. VII, 1, n. 1426, 1428, 1433. — Late 7407

effusum, compactum, atro-purpureum, subinde brunnescens; hyphis pallidis, septatis, ramosis, anastomatico-connexis; conidiis copiosissimis late ellipsoideis, magnitudine sat variis, levibus, purpureo-brunneis, 5 × 3,5-4.

Hab. in corticibus, lignis, muscis in Carolina, Cuba, Ceylon.

6. **Tricohsporium pyrrhosporum** (Berk.) Mass. Journ. myc. 1889, p. 185, t. XIV, f. 4, *Reticularia* Berk., Syll. VII, 1, n. 1432. — Effusum, pulvinatum, compactum, rufo-brunneum; hyphis 2-2,5 μ. cr., pallide flavis, septatis; conidiis copiosissimis, in ramulis lateralibus brevibus acrogenis, globosis, læte brunneis, levibus, crasse tunicatis, 6-7 μ. diam. 7408

Hab. in arboribus emortuis et ins. Mauritii et Cuba.

7. **Trichosporium Fiedleri** (Rab.) Sacc. *Sporotrichum Fiedleri* Rabenh. in Bot. Zeit. 1851, p. 669. — Effusum, tenue, olivaceo-nigrum: hyphis flexuoso-torulosis, ramosis, umbrinis, obscure septatis; conidiis rotundis, demum ovoideis, basi apiculatis (quasi substipitatis) sæpius 1-guttulatis, episporio crassiusculo, glabro, vix colorato. 7409

Hab. in Germania (Fiedler).

8. **Trichosporium bicolor** Karst. et Har. Rev. myc. 1890, n. 47. — Cæspitibus gregariis, sæpe confluentibus, orbicularibus, densis fuscis, 2-4 μ. latis; hyphis ramosis, articulatis, fuligineis, diaphanisque (sub lente), 3-4 μ. crassis; conidiis ellipsoideis, hyalinis 10 × 5. 7410

Hab. ad ramos dejectos, Taurini Ital. bor. (de Notaris).

9. **Trichosporium heteronemum** Passer. Diagn. F. N. IV, n. 134. — Effusum, olivaceum; hyphis filiformibus, decumbentibus vage ramosis, ramis plerisque longe assurgentibus, crassitie varia, plus minusve crebre septatis, fuligineis, immixtis aliis tenuioribus hyalinis; conidiis globosis vel ovalibus, fuligineis, 2,5-3 μ. diam. vel 5 × 2,5. 7411

Hab. in foliis languidis Cycadis revolutæ in horto botanico Parma Ital. bor.

10. **Trichosporium selenioides** Sacc. et Paol. Myc. Malac. n. 119, tab. III, f. 8. — Atrum, effusum, parasiticum (semper?) laxum; hyphis filiformibus, parce ramosis, intricatis, continuis, repentibus, pallide brunneis, 2-3 μ. crassis; conidiis prædistinctis, hinc inde inspersis, reniformi-semilunatis, utrinque acutiusculis, 18-20 × 15, opace fuligineis. 7412

Hab. in culmis (?) putridis præcipue super hyphas Podosporii cujusdam, Malacca (Scortechini).

11. **Trichosporium tortuosum** Karst. Symb. XIX, p. 90. — Effusum, 7413

fuscum, crustam velutinam sistens; hyphis filiformibus, ramosis, creberrime subtortuoso-constrictis, dilute fuligineis v. fuscidulis, diaphanis (sub micr.), 4-6 μ. cr.; conidiis ovoideis, levibus, dilute fuligineis, 6 ∽ 4.

Hab. in foliis Caricis digitatæ in ditione mustialensi Fenniæ.

12. **Trichosporium chordaceum** Passer. Diagn. F. N. IV, n. 94. — 7414
Cæspitulis subglobosis atris gregariis, vel effusum; hyphis vage ramosis, fuscescentibus, pellucidis, articulatis; conidiis ovalibus vel elongatis, levibus, fuligineis, tandem atris, 7,5-10 ∽ 3, intus binucleatis, semper continuis.

Hab. in chorda cannabina putrescente in horto botanico, Parma in Italia boreali.

13. **Trichosporium effusum** (Corda) Sacc. — Syll. IV, pag. 294. — 7415
***T. binucleatum** Karst. Hedw. 1890, p. 272. — Effusum, tenuissimum, atratum, subpulveraceum; hyphis vage ramosis, articulatis, fuscis (hyalinis vel dilute fuligineis sub micr.), 3-5 μ. crassis; conidiis ovalibus, 2-guttulatis, fuscis impellucidisque (sub lente), 9-11 ∽ 5-6.

Hab. in charta putrescente prope Mustiala Fenniæ.

14. **Trichosporium contaminans** Oudem. Contr. Myc. Pays-bas XI, 7416
p. 49. — Effusum, brunneo-atrum v. nigricans, adpressum; hyphis repentibus, septatis, longissimis, vage ramosis, 3-5 μ. cr., ramulis brevibus, lateralibus fertilibus instructis; conidiis sphæroideis, uno polo levissime apiculatis, 2,5-4-3 μ. diam., brunneis, in apice ramulorum congregatis.

Hab. ad muros, truncos etc. circa opificia distillatoria Juniperi, Schiedam Nederlandiæ. Respondet, quoad biologiam, *Torulæ compniacensi*, quæ, ut notum est, velamine nigro fere totam urbem Cognac obtegit.

15. **Trichosporium umbrinum** Link. Cfr. Grev. XVII, p. 3 et Gardn. 7417
Chron. — Hyphis ramosis, badio-brunneis, stratum densum longe et late effusum formantibus; conidiis globosis levibus, brunneis, 12-14 μ. diam.

Hab. ad ollas (quas investit) plantarum cultarum in Britannia.

RHINOCLADIUM Sacc. et Malbr. Syll. IV, p. 295.

1. **Rhinocladium macrosporum** Karst Symb. Myc. XXVI, p. 31. — 7418
Effusum, tomentellum, fulvo-testaceum; hyphis flexuosis dichotome ramosis, articulatis, erectis vel adscendentibus, hyalinis (sub micr.),

10 μ. cr ; conidiis sphæroideo-ellipsoideis, punctatis, flavidis (sub micr.), ex hypharum denticulis oriundis et his diu hærentibus, 10–21 ≈ 12–14.

Hab. in cortice et thallo Parmeliæ vetusto ad Mustiala Fenniæ.

CAMPSOTRICHUM Ehrenb. — Sacc. Syll. IV, p. 295.

1. **Campsotrichum Eugeniæ** Pat. Journ. Bot. 1890, p. 66 cum icone. — Maculis orbicularibus, fulvo-brunneis, usque ad 1 cm. diam., villosis; mycelio in folii parenchymate repente; hyphis sterilibus brunneis, septatis, apice obtusis et pallidioribus, $^1/_2$-$^3/_4$ mm. long., 8-10 μ. cr.; hyphis fertilibus flavidis, gracilibus, septatis, ramosis; conidiis globosis, levibus, stipitatis, fulvis, 14-15 μ. diam. a mycelio septo divisis. 7419

Hab. in utraque pagina foliorum Eugeniæ sp. in silva pr. Fu-Phap Tonkin.

GLENOSPORA B. et Curt. — Sacc. Syll. IV, p. 299.

1. **Glenospora? microspora** Speg. F. Guar. II, n. 187. — Cæspitulis ellipticis pulvinatulis, majusculis; confertiusculis mox collabascenti-confluentibus ac sæpe totam matricem crusta granulosa sordide olivacea obtegentibus; hyphis sterilibus repentibus dense intricato-ramosis, septulatis 4-5 μ. crass. olivaceis, hinc inde ramulos assurgentes fertiles emittentibus; ramulis fertilibus hyalinis laxe noduloso-denticulatis, gracilibus mox mucoso-diffluentibus; conidiis e denticulis ramulorum fertilium oriundis ellipticis v. ovoideis, utrinque obtusis 9-11 ≈ 6-8, granuloso-farctis, olivaceis muco ramulorum immixtis hyphasque incrustantibus. 7420

Hab. ad folia dejecta putrescentia Palmæ, vulgo *Bocayá* vocatæ, prope Guarapi Brasiliæ.

CORDELLA Speg. Guar. I, p. 163. (Etym. ab ill. A. C. J. Corda). — Hyphæ fuscæ, biformes; steriles elongatæ, fertiles breves v. vix evolutæ, monosporæ, omnes e strato proligero tenuissimo, contextu parum distincto donato, submucedineo oriundæ. Conidia globosa v. ellipsoidea, fuliginea, simplicia, in hyphis fertilibus acrogena. — Genus habitum *Torulæ* v. *Helminthosporii* eximie referens.

1. **Cordella spinulosa** Speg. Guar. I, p. 163. — Cæspitulis hispido-velutinis, ozoniaceis, latissime effusis, superficialibus, matrici arcte adnatis, fuligineo-atris; hyphis e strato proligero crassiusculo, 7421

indistincte parenchymatico oriundis, sterilibus densissimis, gracilibus, longissimis, 500-800 = 3, erectis, rectis v. vix flexuosis, densiuscule septulatis, olivaceo-fuligineis, apice subclavulatis, obtusissimis, 5-8 μ. cr. atque pallidioribus; fertilibus numerosis, brevissimis, cylindraceo-flexuosis, continuis, apice obtusis, 18-20 = 2,5, obscure fumosis; conidiis ellipticis v. ovoideis, rectis vel naviculatibus, utrinque acutis sæpeque subapiculatis, 18-20 = 13-15, non v. grosse 1-guttulatis, levibus, opace fuligineis.

Hab. ad cortices ramorum truncorumque putrescentes pr. Guarapi Brasiliæ.

2. **Cordella tomentosa** Speg. F. Guar. VI, n. 190. — Cæspitulis ir- 7422
regulariter lateque effusis sæpe totam matricem obtegentibus tenuibus, olivaceis e pulverulento tomentosis; strato proligero v. epidochio carnosulo-membranaceo effuso olivaceo contextu indistincto, ubique hyphis sterilibus, erectis, 150-200 = 5-10, flaccidulis 3-5-septatis sæpe hinc inde torulosis, articulis alternatim in sicco laminari-compressis, apice obtusis rarius subcircinatis non v. præcipue apicem versus sparse verruculosis pallide olivaceis pellucidis vestito; sterigmatibus crasse brevissimeque papillæformibus ad basin hypharum sterilium exsurgentibus, fuscidulis, monosporis; conidiis obovatis v. grosse 1-guttulatis, minute denseque verruculosis, opace fuligineis.

Hab. ad ramos emortuos putrescentes in silvis prope Calle-poi et Yaguaron Brasiliæ.

3. **Cordella chætomioides** Speg. F. Fueg. n. 445. — Cæspitulis hinc inde 7423
sparsis majusculis 1 mm. d. laxe villosulis, olivaceis; hyphis sterilibus erectis flexuosulis longiusculis ac crassiusculis 200-950 = 5-10, apice obtusis parce septatis, olivaceis; hyphis fertilibus sterilibus intermixtis, vix papillulato-prominulis, stratum proligerum tenuissimum submucoso-membranaceum efficientibus; conidiis globosis 12-15 μ. diam., in sicco sæpius dimidiato-collabascentibus, grosse 1-guttulatis, densissime minuteque asperulis subopace fuligineis.

Hab. ad folia Mayteni ac graminacearum coacervata et putrescentia in silvis prope Shammacus Fuegiæ. — Pulvinuli primo intuitu pro *Chætomio* quodam facillime sumendi. lente tamen inspecti mox dignoscendi.

4. **Cordella coniosporioides** Speg. Guar. I, p. 163. — Acervulis su- 7424
perficialibus linearibus, sæpe longissimis ac dense aggregatis, atro-subvelutinis; hyphis sterilibus numerosissimis densissimisque, conoideo-elongatis, 15-24 = 1,5-4, continuis, sæpe flexuosulis, obtusis, fu-

ligineo-atris, pellucidis; fertilibus parcissimis, sparsis, minutis, globosis v. subangulosis, 5-8 μ. diam., levibus, hyalinis v. fuscidulis, 1-sporis; conidiis globosis, 11-17 μ. diam., rarius obtusis angulosis, episporio tenui, levibus, obscure fuligineis, nubilosis, pellucidis.

Hab. ad folia et culmos dejectos putrescentes Bambusæ sp. cujusdam pr. Guarapì et Caà-guazù Brasiliæ.

Trib. 6. Monotosporeæ Sacc.

MONOTOSPORA Corda — Sacc. Syll. IV, p. 299.

1. **Monotospora asperospora** Cooke et Mass. Grev. XVI, p. 79. — 7425
Effusa, nigra, velutina; hyphis fertilibus erectis, brevibus, e basi discoidea supra attenuatis, continuis, opace atro-brunneis, sursum pallidioribus; conidiis globosis, minute verrucosis, brunneis, 24-28 μ. diam.

Hab. in sarmentis emortuis Clematidis, Shere Britanniæ.

HADROTRICHUM Fuck. — Sacc. Syll. IV, p. 301.

1. **Hadrotrichum arundinaceum** Cooke et Mass. Grev. XVI, p. 11. — 7426
Atrum, initio minute hemisphærico-pulvinatum, denique confluendo effusum, velutinum; hyphis sterilibus ramosis, septatis, repentibus, fuligineis; fertilibus erectis, simplicibus, apice conidium singulum subglobosum opacum, subnigrum, 30 μ. diam. gerentibus.

Hab. in Arundine conspicua emortua, Kew London Britanniæ.

ACREMONIELLA Sacc. Syll. IV, p. 302.

1. **Acremoniella pallida** Cooke et Mass. Grev. XVI, p. 79. — Subeffu- 7427
sa, maculas pallidas in foliis emortuis formans; mycelio repente, hyalino, hyphis fertilibus brevibus, erectis, septatis, hyalinis, ramulos laterales breves, acuminatos emittentibus; conidiis terminalibus, ovoideis, continuis, pallide brunneis, 30-35 × 25.

Hab. in foliis emortuis (Ulmi?), Eastbourne Britanniæ (C. J. Muller).

Trib. 7. Haplographieæ Sacc.

HAPLOGRAPHIUM B. et Br. — Sacc. Syll. IV, p. 304.

1. **Haplographium olivaceum** Cooke et Mass. Grev. XVI, p. 11. — 7428

Subeffusum, atro-olivaceum, subnigrum; hyphis erectis, septatis, simplicibus atris, apice leviter clavatis, pallidioribus; conidiis anguste ellipsoideis, simplicibus, catenulatis, 12-14 ≃ 4, pallide olivaceis, capitulum subglobosum, laxiusculum formantibus.

Hab. in ligno putrescente, Isleworth Britanniæ.

2. **Haplographium penicillioides** Fautrey Rev. Myc. 1890, p. 68. — 7429
Hyphis fertilibus basi fasciculatis, simplicibus, rigidis, septatis, nigricantibus, sursum subhyalinis et in ramos breves, erectos divisis; conidiis globoso-ellipsoideis catenulatis, hyalinis in ramulis acrogenis et capitulum formantibus.

Hab. in acubus vetustis Abietis excelsæ in silvis Charny Côte-d'Or Galliæ.

3. **Haplographium griseum** E. et Lang. Journ. Myc. 1888, p. 124. — 7430
Effusum, sordide griseum; hyphis fertilibus subfasciculatis v. solitariis, pallide brunneis, tenuiter septatis, 150-200 ≃ 4, simplicibus v. passim furcatis supra medium subdichotome ramosis, ramis erectis densis, capitulum 30 μ. long. formantibus; conidiis terminalibus, oblongis, hyalinis, 4-5 ≃ 1,5.

Hab. in culmis zeinis, Pointe à la Hache La. Amer. bor. (Langlois). — Cl. Trail in Trans. Crypt. Soc. Scot. 1888, p. 75, me jam præsagiente, genus *Haplotrichum* divellit in tria sequentia: I. *Haplotrichum* B. et Br. Hyphæ apice indivisæ v. parce ramulosæ. Conidia hyalina (*H. delicatum*, *H. tenuissimum* etc.). — II. *Graphiopsis* Trail. Hyphæ ut supra. Conidia fusca (*G. chlorocephala* etc.). — III. *Rhipidocephalum* Trail. Hyphæ apice basidiis ter penicillatim fasciculato-ramosis coronatæ. Conidia hyalina (*R. bicolor*).

DEMATIUM Pers. — Sacc. Syll. IV, p. 308.

I. *Eu-Dematium.*

1. **Dematium hispidulum** (Pers.) Fr. Syll. IV, p. 308 — ***D. brunneum** 7431
Karst. Symb. XIX, p. 91. — Cæspitulis hemisphæricis v. oblongatis, sparsis, gregariis, subinde confluentibus, setulosis, brunneis v. fuscis, usque ad 1 mm. lat.; hyphis simplicibus, strictis, articulatis, dilute fuligineis et pellucidis (sub lente), sursum leviter attenuatis nudis pallidioribus, 500 ≃ 5-6; conidiis sphæroideis, denique minute asperulis, fuligineis et diaphanis (sub lente), 9-13 μ. diam.

Hab. in culmis foliisque Scirpi lacustris prope Mustiala Fenniæ.

2. **Dematium asperum** (Rabenh.) Sacc. *Sporodum* Rab. Bot. Zeit. 1854, p. 190. — Cæspitosum, fusco-atrum; hyphis ascendentibus v. erectis, longissimis, simplicibus, fuscis, septatis, 18-20 μ. cr., conidiorum catenis ad basin lateralibus, 5-6-geniculatis, 24 μ. cr., conidio terminali aspero, crasso, fusco, 36 μ. diam. 7432

Hab. ad folia graminum majorum in Saxonia. — «Si mensuræ conidiorum exactæ, certe species distincta».

3. **Dematium dimorphum** Karst. Symb. XIX, p. 91. — Cæspitulis striiformibus, confluentibus, atris; hyphis sterilibus repentibus, parcis; fertilibus erectis, simplicibus v. parce ramosis, septatis, fuligineis, subimpellucidis (sub lente), 3-6 μ. cr.; conidiis aliis ex hypharum articulis apicalibus mutatis formatis, ellipsoideo- v. oblongato- v. elongato-fusoideis, fuligineis, 15-22 ≃ 7, aliis pleurogenis, sphæroideis, impellucidis, 9-10 μ. diam. 7433

Hab. in ligno secto Pini silvestris prope pagum Marttila par. Tammela Fenniæ. — Statum conidicum *Rosellinicæ abietinæ* forte sistit.

4. **Dematium parasiticum** Peck 43 Rep. p. 30, t. III, f. 14-18. — Hyphis fertilibus erectis, simplicibus v. subramosis, septatis, coloratis, conidiorum catenas apicales et laterales gerentibus; conidiis subellipsoideis v. citriformibus, uno apice v. utrinque acuminatis, coloratis, 10-12,5 ≃ 5-6,5. 7434

Hab. parasiticum in Hydno quodam (an *H. carbonario*?), Rainbow Amer. bor

II. *Conoplea* Pers. Hyphæ in sporodochium fere compactæ.

5. **Dematium cinereum** (Pers.) Sacc. *Conoplea* Pers. M. E. I, p. 12, Fr. S. M. III, p. 491. — Cæspitulis v. tuberculis depressis, primo extus cinereo-pruinosis, valde compactis, dein pruinâ evanidâ, fusco-nigris; conidiis oblongis, Torulæ instar concatenatis. 7435

Hab. ad truncos vetustos cariosos Salicum pr. Lund (Fries), in Italia (Micheli) et Gallia (Persoon). — Hæc species et duæ sequentes, ceterum obscurissimæ, hyphis compactis, a *Dematio* typico differunt et ad *Tuberculariеas dematieas*, ubi melius cognitæ, transferendæ videntur.

6. **Dematium sphæricum** Pers. Obs. I, p. 25, *Conoplea olivacea* Pers. Syn. p. 234, Fr. S. M. III, p. 491. — Cæspitulis v. tuberculis sphæricis, extus per epidermidem erumpentibus, extus olivaceo-pruinosis, intus nigricantibus; conidiis ovoideis, 7436

Hab. ad ramos emortuos v. frigore necatos Fagi et Syringæ in Germania et Suecia.

7. **Dematium fuscum** (Pers.) Sacc., *Conoplea* Pers. M. E. I, p. 12, Fr. S. M. III, p. 491. — Cæspitulis v. tuberculis fuscis subrotundis, passim confluentibus, extus fusco-pruinosis; conidiis subrotundo-ovalibus. 7437

Hab. ad ramos siccos in Germania et Suecia.

HORMODENDRUM Bon. — Sacc. Syll. IV, p. 310.

1. **Hormodendrum divaricatum** Ell. et Langl. Journ. Myc. 1890, p. 35. — Cæspitulis laxis sparsis; hyphis fertilibus mox opacis, erectis v. effusis, 80-150 × 4-5, divaricato-ramosis, ramis paucis rectangulo-patulis, articulato-constrictis inque conidia subelliptica v. limoniformia, opaca, 7-12 × 6-7 abeuntibus. 7438

Hab. in lignis putridis St. Martin's County La. Amer. bor. (Langlois). — Conidium apicale subglobosum, inferiora oblonga.

2. **Hormodendrum nigro-album** Cost. et Roll. Bull. Soc. Bot. Fr. 1888, p. 302. — Mycelio decolorato; hyphis fertilibus erectis, irregulariter ramosis, brunneo-nigricantibus, basi 3-4 μ. cr. apicem versus sensim attenuatis, ramulis ultimis copiose divisis, 0,5-1 μ. cr., conidiorum catenulas simplices v. ramosas gerentibus; conidiis hyalinis, rotundatis, ovoideis v. bacillaribus, 1 μ. diam. v. 4 × 1. 7439

Hab. in excrementis Galli pr. Paris Galliæ.

Trib. 8. Sarcopodieæ Sacc.

SARCOPODIUM Ehrenb. — Sacc. Syll. IV, p. 312.

1. **Sarcopodium salicellum** Sacc. Cfr. Fuck. Symb. myc. App. II, p. 62. — Cæspitulis adnatis, primo convexulis, 2-4 mm. lat. sæpe confluentibus, orbicularibus oblongisve, totis tomentosis, albis rubellisve, demum planis et disco flavescente, levi, glabro, liberato; conidiis in sporophororum simplicium densissime verticaliter dispositorum apicibus ortis, cylindraceis, rectis continuis, 8 × 2. 7440

Hab. in ramis putrescentibus Salicis in Rhenogovia, socio *Helotio salicello*, cujus est status conidiophorus.

2. **Sarcopodium variegatum** Fuck. Symb. mycol. App. III, p. 31. — A præcedente differt cæspitulis plerumque magis effusis confluentibusque, tomento saturatiore rubello-fusco, margine albo; conidiis angustioribus, 7-8 × 1. 7441

Hab. in truncis putridis Fraxini, in Rhenogovia, sociâ *Dasyscyphâ variegatâ*, cujus est status conidiophorus.

HELICOTRICHUM Nees — Sacc. Syll. IV, p. 313.

1. **Helicotrichum olivaceum** Speg. F. Puigg. n. 457. — Cæspitulis 7442
compactiusculis irregulariter lateque 1-10 mm. effusis, applanatis; maculiformibus, olivaceis; hyphis dense constipatis deorsum opacis erectis apice plus minusve circinatis 50-80 ≃ 3-4 pellucidis fusco-olivaceis v. subfuligineis, levissimis; conidiis e strato proligero tenuissimo fusco inter bases hypharum oriundis e cylindraceo fusoideis 12 ≃ 1,5 apice acutiusculis, basi subtruncatis, continuis hyalinis.

Hab. ad folia dejecta putrescentia Dryomidis speciei cujusdam in nemorosis prope Apiahy Brasiliæ.

2. **Helicotrichum murinum** (Desm.) Sacc. *Circinotr. murinum* Desm. 7443
XXII Not. p. 3. — Hypo- raro epiphyllum; cæspitulis minutis, sparsis, irregulariter rotundatis v. oblongis, murinis dein subnigris, opacis; hyphis simplicibus circinato-intortis, subimpellucidis, contiguis v. longe septatis 50-75 × 5; conidiis in stratum album ad basin hypharum accumulatis, hyalinis rectis sublinearibus utrinque acutis, 15 ≃ 1,6.

Hab. in foliis vetustis Platani in Gallia bor. — «Vix vel non diversum ab *Helicotricho obscuro*».

ELLISIELLA Sacc. Syll. IV, p. 415.

1. **Ellisiella Ari** Passer. Diagn. F. N. IV, n. 135. — Maculis discoideis 7444
exaridis fusco-marginatis sparsis vel confluentibus; cæspitulis amphigenis, punctiformibus, atris, centralibus v. circinnantibus; hyphis sterilibus fuscis erectis sursum attenuatis et pallidioribus, continuis, 60-100 μ. long.; conidiis elongatis hyalinis, rectis vel leniter curvis, utrinque muticis, continuis, 15-18 × 5-6; basidiiis non visis.

Hab. in foliis languidis Ari italici, in horto botanico Parma.

STEIROCHÆTE A. Br. et Casp. — Syll. IV, p. 316. — Verisimiliter totum genus cum *Colletotricho* confluit.

1. **Steirochæte Solani** Casp. in Klot. Hb. Myc. 1980, Bot. Zeit. 1855, 7445
p. 300 (absque diagnosi).

Hab. in caule Solani tuberosi in Germania. — «An eadem ac *Vermicularia maculans*?»

Trib. 9. Myxotricheæ Sacc.

BOLACOTRICHA B. et Br. — Sacc. Syll. IV, p. 316.

1. **Bolacotricha lignorum** Fautr. et Roum. Rev. Myc. 1892, p. 10. — 7446
Hyphis longis, 4 μ. cr., simplicibus, apice circinatis, coloratis; conidiis globulosis, 12-16 μ. diam., subhyalinis, verruculosis.
Hab. in assere quercino putri, Noidan, Côte-d'Or Galliæ.

MYXOTRICHUM Kunze — Sacc. Syll. IV, p. 317. — Genus ex elementis variis compositum, ad interim hic servatum. Primus monui (1881) species quasdam hujus generis *vesiculis suboctosporis* pollere, hinc principio ad *Mucoraceas*, demum vero et rectius ad *Gymnoascaceas* referendas esse putavi (Cfr. Syll. IV, p. 317 et VIII, p. 812 et 823). Nonnullæ vero species ascis destitutæ sunt et ad Hyphomyceteas spectant. Qua de causa necessarium videtur pristinum genus in duo divellere; nempe: I. *Myxotrichum* Kunze ascis præditum e Gymnoascaceis (*M. coprogenum*, *M. chartarum*, *M. æruginosum* etc.); II. *Myxotrichella* Sacc. ascis destituta et ad Hyphomyceteas partinens. (*M. spelæa*, *M. murorum*, *M. rara* etc.).

1. **Myxotrichum coprogenum** Sacc. Syll. IV, p. 319 — var. **malacense** 7447
Sacc. et Paol. Myc. Malac. n. 120. — A typo differt sporidiis paullo majoribus, nempe 5 μ. diam., 4 μ. e latere crassis; ascis 10 μ. diam.
Hab. in fimo gallinaceo, Malacca (Scortechini).

Trib. 10. Chloridieæ Sacc.

CHLORIDIUM Link — Sacc. Syll. IV, p. 320.

1. **Chloridium glaucum** E. et E. Journ. Myc. 1888, p. 113. — Effusum, 7448
glaucum, dein olivaceo-brunneum, velutinum; hyphis fasciculatis, 75–100 ≃ 2,5–3, tenuiter septatis, simplicibus v. parce ramosis, sursum curvatis, pallidioribus et minute spiculoso-denticulatis; conidiis minutis, obovatis vel ellipsoideis, solitarie acro-pleurogenis, 3–3,5 ≃ 2,
Hab. in ramis quercinis dejectis, Newfield N. J. Amer. bor.
2. **Chloridium atrum** Corda Ic. I, p. 17, fig. 225. — Cæspitulis elon- 7449
gatis, tomentosis, atris; hyphis subulatis, simplicissimis, flexuosis, impellucidis; conidiis elongatis utrinque rotundatis, cinereis semipellucidis,

Hab. in ligno putrido pr. Prag Bohemiæ. — Ab hoc certe differt *Chl.? atrum* Kunze Flora 1830, p. 370 ita descriptum: effusum, hyphis minutissimis pellucidis, conidiis numerosis globosis, atris. In Arundine Donace in insula Madera. «Species hæc postrema omnino dubia».

3. **Chloridium micans** Karst. Symb. Myc. Fenn. XXVII, pag. 35. — 7450
Cæspitulis effusis, griseo-fuscis; hyphis fertilibus erectis vel assurgentibus, simplicibus, parce septulatis, dilute fuligineis semipellucidisque (sub micr.), compressis, hinc inde isthmoideo-contractis, 2–3 mm. altis, usque ad 14 μ. cr., apice pallidioribus sæpeque ramulis brevibus, teneris hyalinis instructis; conidiis terminalibus, accumulatis albidis, ellipsoideo-sphæroideis, 9–11 ≃ 8-9.

Hab. in foliis putridis Iridis Pseudacori, Kojo prope Tammela Fenniæ. — Hyphæ luce refracta cupreo- et æneo-micantes.

VERTICICLADIUM Preuss — Sacc. Syll. IV, p. 327.

1. **Verticicladium acuum** Oud. Contr. Flor. Myc. Pays-Bas XI, p. 50. 7451
— Hyphis erectis articulatis, deorsum saturate fuscis, sursum dilutius tinctis, apice hyalinis, nunc brevioribus, 235 ≃ 12, tunc vero elatioribus, infra apicem verticillis binis ramorum ternorum alternantium conidiferorum onustis; ramis conidiferis piriformibus, sursum valde contractis; conidiis hyalinis, ellipticis, $2^1/_3 \simeq 1^1/_5$.

Hab. in foliis Abietis excelsæ, sociâ *Vermicularia acuum*, Putten Hollandiæ.

GONYTRICHUM Nees — Sacc. Syll. IV, p. 329.

1. **Gonytrichum rubrum** Pat. Bull. Soc. Myc. 1891, p. 181. — Cæspi- 7452
tulis sparsis, minutis, intense rubris, velutinis; hyphis rigidiusculis, ramosis, rufis, 4 μ. cr. septatis; basidiis verticillatis, hyalinis, subulatis, inferne inflatis, 13–15 ≃ 3; conidiis apicalibus, solitariis, pallidissime fulventibus, ovoideis, 1-guttulatis, 3–4 ≃ 2,5.

Hab. in radicibus putridis Anemones coronariæ, Quito Amer. merid. — A *G. cæsio* colore præcipue differt.

2. **Gonytrichum fulvum** Ellis N. Am. Fungi n. 657 (absque diagnosi). 7453

Hab. in foliis et culmis Andropogonis, Newfield N. J. Amer. bor. — Mihi videtur idem ac *G. gilvum*, sed conidia non vidi.

Trib. 11. Stachylidieæ Sacc.

STACHYLIDIUM Link — Sacc. Syll. IV, p. 331.

1. **Stachylidium Sambuci** Rich. Cat. Champ. Marn. n. 1987. — Hyphis 7454

erectis, basi brunneis, sursum incoloribus verticillato-ramosis, ramulis acutis apice conidia glomerulata, ovoidea, hyalina ferentibus.

Hab. in ramis decorticatis Sambuci nigræ, St. Amand Marne Galliæ.

CHALARA Corda — Sacc. Syll. IV, p. 333.

1. **Chalara Rubi** Sacc. et Briard in Rev. Myc. 1886. — Hyphis cylindraceis, medio subinflatis, 80-100 × 8-10, brunneis, 3-4-septatis; conidiis catenulatis, cylindricis, 4-guttatis, truncatis, 18-20 × 5-6. 7455

Hab. in sarmentis Rubi, Troyes Galliæ.

2. **Chalara paradoxa** (De Seynes) Sacc. *Sporoschisma paradoxum* De Seynes Rech. Veget. Inf. III, p. 30, t. I, f. 22-24. — Mycelio repente, septato, hyalino; hyphis fertilibus erectis, cylindraceo-obclavatis, dilute rufo-fuligineis, deorsum 3-4-septatis 100-150 × 5; conidiis ex interiore hyphæ catenulatim exsilientibus, breve cylindraceis, utrinque obtusis, 6-10 × 4-5, hyalinis; hyphis alteris fertilibus ex eodem mycelio (teste Seynesio) oriundis, paullo brevioribus, non inflatis, subhyalinis, apice conidia oblongo-ovoidea, utrinque obtusa, catenulata, 18 × 8-9, olivaceo-fuliginea, uniguttata gerentibus. 7456

Hab. in fructibus putrescentibus Ananassæ cultæ, Paris Galliæ. — « *Ch. brachysporæ* peraffinis species; an forma toruloidea ex eodem *Chalaræ* mycelio oriatur, mirum videtur ».

3. **Chalara cylindrica** Karst. Symb. XX, p. 108. — Effusa, subvelutina, tenuis, fusca; hyphis sterilibus repentibus, ramosis, dilutissime fuligineis, pellucidis, 4 μ. cr., fertilibus erectiusculis, flexuosis, dense aggregatis, æqualibus, pluriseptatis (septis circ. 10), fuligineis diaphanisque (sub lente), 75-90 × 5; conidiis ex apice hypharum conoideo, hyalino exsilientibus, catenulatis, cylindraceis, 2-guttulatis, hyalinis, 3-6 × 1. 7457

Hab. in pagina inferiore squamarum exsiccatarum Abietis excelsæ prope Villnäs par. Lemo Fenniæ.

Sect. 2. **Didymosporæ** Sacc.

Subsect. 1. **Micronemeæ** Sacc.

Trib. 1. Bisporeæ Sacc.

DICOCCUM Corda — Sacc. Syll. IV, p. 342.

1. **Dicoccum lathyrinum** Ell. et Gall. Journ. Myc. 1889, pag. 65. — 7458

Cæspitulis parvis, subconfluentibus, castaneis, velutinis, hypophyllis, 2–3 mm. lat., folii venulis limitatis, maculis definitis non insidentibus; conidiis oblongis, 1-septatis, leniter constrictis, rectis, olivaceis, 20–22 ≃ 7–8.

Hab. ad folia viva Lathyri ochroleuci, Highwood Canon in montibus Highwood, Montana Amer. bor.

2. **Dicoccum pulcrum** Thüm. Myc. Univ. 1878, Rev. Myc. 1879, p. 11. 7459
— Acervulis amphigenis, atris, in pagina superiore maculas effusas, velutinas, nitidas, non limitatas, in pagina inferiore soros minores plerumque nervos sequentes formans; conidiis simplicibus didymis tridymisque, ellipsoideis vel ovoideis vel interdum curvato-lunulatis, 20 ≃ 10, raro globosis 10 μ. diam., badiis, episporio tenui, diaphano.

Hab. in foliis vivis Soymidæ rhopalifoliæ ad fl. Amotmul pr. Djur Afric. trop. (Schweinfurth).

3. **Dicoccum microscopicum** Karst. Symb. XIX, pag. 91. — Conidiis 7460
oblongatis utrinque obtusissimis, crasse 1–2-septatis, vix vel non constrictis, in acervulos irregulariter dehiscentibus conjunctis, dilutissime fuligineis, diaphanis (sub lente), 9–15 ▪ 4–5.

Hab. supra Dematium dimorphum pr. Tammela Fenniæ.

CYCLOCONIUM Cast. — Sacc. Syll. IV, p. 343.

1. **Cycloconium oleaginum** Cast. Cat. Marseill. pag. 220, t. VI, Sacc. 7461
Syll. IV, pag. 343.

Hab. in foliis Oleæ europææ, cui noxium, in Gallia et Italia merid. (Kruch). — Cfr. Boyer in Journ. bot. 1891, p. 434, cum iconibus optimis. — Conidia ovato-oblonga 1-septata, leviter constricta, 17–25 ≃ 11, sporophoro brevi, sæpius inflato-vesiculoso suffulta et e mycelio subcuticulari repente radiante oriunda. — *Cycloconium* a gen. *Dicocco* forte non satis differt. Cl. Castagne *oleaginum* recte scripsit, nec *elæoginum* ut Thümen et ego ipse loc. cit.

BISPORA Corda — Sacc. Syll. IV, p. 343.

1. **Bispora effusa** Peck 44 Rep. pag. 27, t. IV, f. 15–17. — Effusa, 7462
nigra, velutina; hyphis erectis, simplicibus, coloratis, in catenas conidiorum abeuntibus; conidiis oblongis, 1-septatis, leviter constrictis, 12–15 ≃ 4–5.

Hab. in ligno decorticato Aceris saccharini, Adirondack Mount. Amer. bor.

Subsect. 2. **Macronemeæ** Sacc.

Trib. 2. Cladosporieæ Sacc.

PASSALORA Fr. et Mont. — Sacc. Syll. IV, p. 344.

1. **Passalora Protearum** Kalch. et Cooke in Grev. XIX, pag. 6. — Epiphylla; maculis irregularibus, sordidis; hyphis fasciculatis, brevibus; conidiis subfusoideis, acrogenis, 1-septatis, loculo superiori crassioribus, pallidis, 35–40 × 7. 7463

Hab. in foliis Proteæ argenteæ ad Caput Bonæ Spei Africæ austr.

FUSICLADIUM Bon. — Sacc. Syll. IV, p. 345.

1. **Fusicladium bicolor** C. Mass. Contr. Mic. Ver. p. 115, t. IV, f. 28. — Cæspitulis hypophyllis, diffusis; hyphis fertilibus brevissimis, rectis, fusco-fuligineis, continuis, simplicibus, 15-20 × 6–9, apice obtusis; conidiis acrogenis (rarissime in hyphis longioribus, scilicet usque ad 25 μ. long., pleuro-acrogenis?), vulgo solitariis, elongato-fusiformibus, 1-septatis, ad septum magis minusve distincte constrictis, 26–38 × 8–10, hyalinis, intus multiguttulatis, loculis subinæqualibus. 7464

Hab. in foliis Chærophylli hirsuti? in regione montana montis Lobia agri veronensis Ital. bor., sociâ *Phyllostictâ Chærophylli.*

2. **Fusicladium Angelicæ** Ell. et Ev. Proc. Acad. Phil. 1891, p. 87. — Hyphis hypophyllis, continuis, brunneis, subundulatis, 40-50 × 5-6, supra dentatis, basi sclerotioidea insidentibus, demum deciduis; conidiis acrogenis, clavatis, 1-septatis, hyalinis, 30–40 × 8–10. 7465

Hab. in foliis vivis Angelicæ atropurpureæ, Racine, Wis. Amer. bor. (Davis).

3. **Fusicladium punctiforme** Wint. Hedw. 1887, p. 34. — Cæspitulis hypophyllis, minutissimis, plerumque dense gregariis, maculas minutas, angulatas, a nervis folii limitatas, 0,5-1 mm. lat., sparsas vel gregarias et confluentes, fuligineas, demum cinerescentes formantibus, punctiformibus, atris; hyphis fasciculatis, erectis, sæpe flexuosis torulosisque, denticulatis, remote septatis, fusciduli, usque ad 150 × 5; conidiis numerosis, elongato-oblongis vel subcylindraceis, utrinque subattenuatis et rotundatis, medio 1-septatis, vix constrictis, hyalinis, demum dilutissime fuscescentibus, 27-38 × 7-9. 7466

Hab. ad folia viva Ziziæ integerrimæ pr. Perryville, Missouri Amer. bor.

4. **Fusicladium brevipes** Ell. et Ever. Journ. Mycol. 1889, p. 69. — Cæspitulis hypophyllis, parvis, sparsis v. confluentibus, murinis v. fumoso-olivaceis; hyphis e cellulis subovatis, brunneolis, 8–12 ≃ 5 efformatis; conidiis acrogenis, ellipsoideis v. oblongis, 25–35 ≃ 8–11, ochraceo-brunneis, primo continuis, dein 1-2-septatis, longioribus, basi in basim stipitiformem attenuatis. 7467

Hab. in foliis Astragali hypoglottidis, Musie Pass, Sangre de Christo Range, Colorado Amer. ber. (Demetrio). — Ad *Cercosporam* vergens.

5. **Fusicladium ascyrinum** Ell. et Ev. Journ. Myc. 1888, pag. 53. — Cæspitulis nigris, pubescentibus; hyphis in fasciculos valde confertis, erectis, septatis, 75 ≃ 4, subtus subopacis, supra subhyalinis; conidiis solitariis v. 2-3 gregariis, raro breviter catenulatis acrogenis vel subacrogenis, ovato-oblongis, 2-3-guttatis, hyalinis, 16-20 ≃ 4-6. 7468

Hab. in bracteis floralibus et pedunculis Ascyri Crucis-Andreæ, Natchitoches, Louisiana Amer. bor. (Langlois).

6. **Fusicladium caryogenum** Ell. et Langl. Journ. Myc. 1888, p. 124, — Maculis numerosis, hypophyllis, parvis, 1–5 mm. lat., majoribus irregularibus, subangulosis, centro griseolo-albis, margine purpurascentibus; hyphis simplicibus vel basi subramosis, atro-olivaceis, septatis, 60–75 ≃ 4–5, subæqualibus; conidiis acrogenis, amygdaliformibus, ovatis v. clavato-ovatis, fumoso-olivaceis, 10–15 ≃ 6–7. 7469

Hab. in foliis viventibus Caryæ olivæformis, St. Martinsville Amer. bor. (Langlois).

7. **Fusicladium effusum** Wint. — Sylv. IV, p. 346 — var. **carpineum** Ell. et Ev. Proc. Acad. Phil. 1891, p. 91. — A typo recedit, quia plerumque epiphyllum, colore saturatiore et conidiis paullo minoribus et pallidioribus. 7470

Hab. in foliis vivis Carpini americanæ, London Canada Amer. bor. (Dearness).

8. **Fusicladium Livistoniæ** Karst. in Hedw. 1891, p. 302. — Cæspitulis punctiformibus, atris; hyphis fasciculatis erectis, ut plurimum flexuosis, levibus, æqualibus, rarius subnodulosis, circ. 8-septatis, brunneis, sursum pallidioribus, usque 130 ≃ 6; conidiis oblongatis, utrinque obtusis, rectis, 1-septatis, hyalinis, 17 ≃ 6. 7471

Hab. in petiolis foliorum Livistoniæ sinensis vivorum, Lümatta in regione viburgensi Daniæ (Arth. Thetleff).

9. **Fusicladium Sorghi** Pass. in Hedw. 1877, p. 122. — Maculis amphigenis, suborbicularibus, fuscis; hyphis fertilibus brevissimis, assurgentibus, congestis; conidiis subglobosis v. obovatis, continuis. 7472

Hab. in foliis Sorghi halepensis in Italia boreali. — An *Coniosporium* ex ipso auct.?

10. **Fusicladium dubiosum** Speg. Guar. I, p. 164. — Maculis parvulis, 0,5-1,5 mm. diam., orbicularibus v. ellipticis, sæpe confluendo-elongatis, flavescenti-albis, indeterminatis, sæpius areola rubescenti cinctis, amphigenis; cæspitulis centro macularum insidentibus, dense constipatis, minutissimis, velutinis, olivaceis; hyphis erectis, cylindraceis sæpeque e latere compressis, apice leniter cuneato-acutatis, 40-80 ≃ 5, 2-3-septatis, ad septa non v. vix constrictis, sordide obscureque fumosis; conidiis clavulato-piriformibus, 1-septatis, 15 ≃ 7, leniter constrictis, loculo supero brevi depresso, obtusissimo. infero conico, triplo longiore, acuto, nubilosis, subhyalinis 7473

Hab. ad folia viva Digitariæ sp. cujusdam prope Guarapi Brasiliæ.

11. **Fusicladium Alopecuri** Ell. et Ev. Journ. Myc. 1888, pag. 53. — Cæspitulis compactis, griseolis, dense sparsis; hyphis fumoso-hyalinis, continuis, subtruncatis, supra dentatis, rectis; conidiis clavato-oblongis, olivaceis, granulosis, continuis v. evanide 1-septatis, 20-35 ≃ 7-10. 7474

Hab. in apice subemortuo foliorum Alopecuri geniculati, Columbia, Montana Amer. bor. (B. T. Galloway). — *F. fasciculato* valde affine.

12. **Fusicladium destruens** Peck 43 Rep. p. 30, t. III, f. 19-22. — Hyphis breviusculis, 20-50 μ. long., fasciculatis, continuis v. prope basin 1-2-septatis, coloratis, cæspitulos minutos olivaceo-virentes formantibus; conidiis acrogenis continuis vel passim 1-septatis, quandoque subcatenulatis, ellipsoideis vel oblongis, coloratis, 7-20 ≃ 5-7. 7475

Hab. in foliis vivis Avenæ sativæ, Sovey Amer. bor.

13. **Fusicladium fuliginosum** Kalch. et Cooke in Grevillea 1884, p. 24. — Effusum, fuliginosum, incrustatum; hyphis repentibus, ramosis, ramulis assurgentibus, brevibus, quandoque furcatis; conidiis fusoideis, continuis, hyalinis, 10-12 ≃ 4. 7476

Hab. in foliis vivis (ignotæ plantæ), Natal Africæ.

SCOLECOTRICHUM K. et S. — Sacc. Syll. IV, p. 347.

1. **Scolecotrichum melophthorum** Prill. et Delacr. Bull. Soc. Myc 1891, 7477

p. 219 c. ic. — Effusum, velutinum, fusco-olivaceum, in foliis maculas ochraceo-fulvas incolens, in caulibus fructibusque ulcera plus minus lata efficiens; hyphis fertilibus erectis, simplicibus, septatis, 100-200 ≃ 5-6, dilute olivaceis; conidiis hyphis concoloribus, elongato-ovatis, continuis, 10 ≃ 3,5-5 vel uniseptatis, 20-25 ≃ 5-6.

Hab. in foliis, caulibus fructibusque Cucumeris Melonis, quem maxime vexat, in Gallia.

2. **Scolecotrichum atriellum** Cooke et Mass. XVI, p. 3. — Cæspitulis 7478
effusis, confluentibus, atris; hyphis erectis, simplicibus, breviter septatis, fuscis, sursum pallidioribus; conidiis acrogenis, ellipticis, uniseptatis, non constrictis, atro-brunneis, 25 ≃ 12.

Hab. in ramis Passifloræ sp., Brisbane Australiæ (Bailey).

3. **Scolecotrichum Bonordenii** Sacc. Syll. IV, p. 348, Brun. Misc. Myc. II, p. 48. — Sec. cl. Brunaud l. c.: conidia sunt 16-18 ≃ 6-8 et species nascitur quoque in pag. præsertim super. foliorum Althææ roseæ, Saintes Galliæ.

4. **Scolecotrichum Iridis** Fautr. et Roum. Rev. Myc. 1891, p. 82. — 7479
Hyphis fasciculatis, olivaceis, pellucidis, simplicibus, rectis, obtusis, 50-60 ≃ 8-10, in maculis oblongis; conidiis glandem cupulatam imitantibus, basi incrassatis, pleurogenis, hyalinis, papillosis, 1-septatis constrictisque, 40-42 ≃ 20-22.

Hab. in foliis vivis Iridis germanicæ cultæ Noidan, Côte-d'Or Galliæ. — «An *Heterosporium* immaturum?».

5. **Scolecotrichum phomoides** Cooke et Mass. Grev. XVI, p. 79. — 7480
Amphigenum; cæspitulis minutis, nigris, suborbicularibus, punctiformibus; hyphis erectis, simplicibus, gracilibus, basi fasciculatis, breviter septatis, pallide olivaceis; conidiis 1-septatis, ellipsoideis, hyalinis, 6 ≃ 2-3.

Hab. in foliis emortuis Ophiopogonis japonici, Kew Britanniæ.

6. **Scolecotrichum Roumegueri** Cav. Fung. parass. V, n. 112. — Cæ- 7481
spitulis superficialibus, minutissimis, pulvereis, in maculis oblongis, superne nigricantibus, inferne albo-cinereis, fusco-zonatis, insidentibus; hyphis brevibus, aggregatis, supra basim valde inflatam abrupte curvatis septatisque, apice plerumque truncatis, fusco-olivaceis, 22-32 ≃ 9-12 (14-15 ad basin); conidiis acrogenis, ovatis, dilute olivaceis, 1-septatis, levibus.

Hab. in foliis nunc viridibus Phragmitis communis, Toulouse Galliæ (C. Roumeguère). — «Fere absque dubio *Napicladium arundinaceum* immaturum».

7. **Scolecotrichum maculicolum** E. et K. Journ. Myc. 1887, pag. 103. 7482
— Maculis amphigenis, anguste ellipsoideis, circ. 5-8 ≃ 2, sordide albis, atro-marginatis; hyphis hypophyllis, subundulatis, continuis v. prope basim evanide septatis, subfuligineis, circ. 40 ≃ 4-5 in cæspitulos seriatos aggregatis; conidiis acrogenis, granulosis, continuis, ovatis, ovato-ellipsoideis vel oblongis, subhyalinis, 20-22 ≃ 8-11.

Hab. in foliis subemortuis Phragmitis communis, Kansas Amer. bor. (W. A. Kellerman).

8. **Scolecotrichum uniseptatum** (B. et C.) Cooke Grevill., *Cladotrichum uniseptatum* (B. et C.) Sacc. Syll. IV, p. 373. — Hyphæ atro-brunneæ, simplices v. raro breviter ramosæ, ad septa non incrassatæ; conidia oblonga, 1-septata, leniter constricta, utrinque rotundata, brunnea, 10 ≃ 5. — Nascitur quoque in ligno emortuo, Epping Forest Britanniæ. 7483

CLADOSPORIUM Link — Sacc. Syll. IV, p. 350.

I. *In Dicotyledoneis herbaceis.*

1. **Cladosporium cucumerinum** Ell. et Arth. Bull. Agric. Stat. Indiana n. 19 (1889), pag. 9-10, cum ic. — Effusum, maculiforme, subvelutinum; cæspitulis griseo-fuscis, dein atro-virentibus et depressiones in fructu efficientibus, mycelio endogeno copioso filiformi; hyphis fertilibus cæspitosis, parce septatis, simplicibus, sursum denticulatis, pallidioribus; conidiis pleuro-acrogenis ovoideis, limoniformibus v. laxe fusoideis, plerumque continuis, olivaceis, 10-13 ≃ 3-4. 7484

Hab. in fructibus Cucumeris sativi, quos destruit vel deformat, Geneva N. J. Amer. bor.

2. **Cladosporium Pisi** Cug. et Macch. Not. ins. e parass. 1890, p. 16, t. V. — Cæspitulis fuscis, minutissimis in pustulis ex epicarpio deformato exortis insidentibus; hyphis elongatis, ramosis, flexuosis, crebre septatis, brunneis; hyphis fertilibus, pallide fuligineis; conidiis terminalibus, ovatis, subhyalinis, sæpius 1-septatis, constrictis, 2-guttatis, 4,5-5,5 ≃ 4-4,5, lateralibus ellipsoideis, continuis, hyalinis, 7-9 ≃ 3,5-4,5. 7485

Hab. in leguminibus vivis Pisi sativi, quæ arescunt, Vaciglio pr. Modena Ital. bor.

3. **Cladosporium subnodosum** Cooke in Rav. Amer. Ex. 294 et Grev. XVII, p. 17. — Epiphyllum; cæspitulis orbicularibus, circ. 1 mm. diam. atro-olivaceis, compactis; hyphis flexuosis, crassiusculis, fuscis, septatis, ad septa nodulosis, ad apicem hyalino-attenuatis; conidiis 7486

ellipticis, utrinque rotundatis, 1-3-septatis, olivaceis, minutissime granulato-asperatis, 15-20 ≃ 9-10.

Hab. in foliis Spinaciæ, Carolina austr. Amer. bor. — Verosimiliter *Heterosporium*.

4. **Cladosporium pelliculosum** Berk. et Curt. in Herb., Grev. XVII, pag. 67. 7487

Hab. in foliis Polygoni punctati, Lobeliæ etc., Carolina austr. — Vix differt a *C. effuso* B. et C.

5. **Cladosporium obtectum** Rabh. Unio Itin. XXXVI, Grev. XVII, p. 66. — Epiphyllum, tenue effusum; hyphis repentibus, demum assurgentibus, tenuibus, flexuosis, septatis, fuscis; conidiis ellipticis, cylindraceis v. clavulatis, uniseptatis, utrinque subattenuatis, pallide fuscis, 12-16 ≃ 5-6. 7488

Hab. in foliis Artemisiæ maritimæ, Alghero (Doct. Marcucci).

6. **Cladosporium pilicolum** Rich. Cat. Champ. Marn. n. 2003. — Hyphis fasciculatis, brunneis, ramosis; conidiis cylindraceis, 1-3-septatis, concoloribus. 7489

Hab. in caulibus siccis Galii Molluginis, Soulanges, Marne Galliæ. — « Ubi occurrant pili in *G. Mollugine* nescio ».

7. **Cladosporium Lycopersici** Plowr. Fung. Dis. Tomat. p. 3, f. 5. — Hyphis cæspitosis, septatis, sursumambitu irregularibus, e macula nigra oriundis; mycelio compacto; conidiis copiosis, cylindraceis, nigris, 1-3-septatis, utrinque subacuminatis, 10-30 ≃ 8-10. 7490

Hab. in fructibus Solani Lycopersici prope King's Lynn Britanniæ.

8. **Cladosporium Heliotropii** Erikss. in Bot. Centr. 1891, n. 36, p. 299. — Cæspitulis epiphyllis, orbicularibus, atris; hyphis floccosis, longissimis, 80-150 ≃ 4-6, simplicibus vel ramulosis, septatis, olivaceis; conidiis ellipsoideis, continuis vel 1-septatis, 7-9 ≃ 4-5, olivaceis. 7491

Hab. in foliis Heliotropii peruviani in Scandinavia.

9. **Cladosporium Chætomium** Cooke Grev. XVII, p. 66. — Cæspitulis minutis, in foliis viventibus, erumpentibus, atris, perithecia *Chætomii* æmulantibus; hyphis densissime congestis, flexuosis, simplicibus, septatis, fuscis; conidiis uni- dein triseptatis, cylindricis, obtusis, 30-40 ≃ 7, pallide fuscis. 7492

Hab. in foliis Euphorbiæ, New Jersey Amer. bor. (Ellis).

10. **Cladosporium profusum** Rabenh. in Cooke Black Moulds t. XXV, f. 12. — Sacc. Syll. IV, p. 371. — Hyphis fasciculatis, nodulosis, 7493

septatis, fuscis, sursum pallidioribus, erectis, 6-7 μ. crassis; conidiis apice hypharum v. nodulis insertis, ovoideis, magnitudine variis, continuis, uni-biseptatis, guttuligeris, 18-24 = 5, pallidis.

Hab. in vegetabilibus putridis in Germania. — «Affine, ut videtur, *C. herbarum*».

II. *In Dicotyledoneis lignosis.*

11. **Cladosporium microsporum** Rabh. Unio Itin. XLII, Grev. XVII, p. 66. — Hypophyllum; cæspitulis erumpentibus, gregariis, minutissimis, atris; hyphis?; conidiis? 7494

Hab. in foliis Nerii Oleandri, Gonnos-Fanadiga Sardiniæ (Doct. Marcucci).

12. **Cladosporium Gleditschiæ** Cooke in Rav. Amer. Ex. 297, Grev. XVII, p. 66. — Carpogenum, effusum, olivaceum; hyphis repentibus, assurgentibus, tenuibus, flexuosis, septatis, fuscis; conidiis arcte ellipticis, demum elongatis, 1-3-septatis, vix constrictis, succineis, 12-20 = 4. 7495

Hab. in leguminibus Gleditschiæ, Carolina austr. Amer. bor.

13. **Cladosporium Heuglinianum** Thüm. Rev. Myc. 1879, pag. 11. — Maculis amphigenis, sparsis, plus minus orbiculatis, magnitudine variis, nitido-atris, subeffusis, velutinis; hyphis subrectis, subulato-rigidis, simplicibus, septatis, 6 mm. cr., longis, dilute fuscis; conidiis 1-septatis, cylindrico-subellipticis, utrinque subacutis, non constrictis, 12-20 = 6-8; hyphis concoloribus. 7496

Hab. in foliis subvivis languidisve Buddleiæ polystachyæ pr. Nakfa ad Mare Rubrum (Th. de Heuglin).

14. **Cladosporium subcompactum** Roum. et Karst. Rev. Myc. 1890, p. 80. — Cæspitulis superficialibus, tomentosis, compactis, suborbicularibus, atris, 4-5 μ. lat.; hyphis dense aggregatis et intricatis, ramosis, articulatis, fuligineo-hyalinis v. dilute fuligineo-olivaceis, 3-6 μ. cr.; conidiis ovoideis v. ellipsoideis, 1-septatis, ad septum non constrictis, ex hyalino fuligineo-fuscis, impellucidis v. semipellucidis, 20-28 = 12-16. 7497

Hab. ad ramos Sterculiæ fœtidæ et Terminaliæ in Ceylon. — Conidia diu hyalina primitusque sæpe irregulariter globulosa.

15. **Cladosporium diaphanum** Thuem. M. U. n. 1868. — Cæspitibus hypophyllis, tenuibus, laxis postremo subcrassis, late effusis, pulveraceis, sordide olivaceis, inquinantibus; hyphis fasciculatis, longis, parce ramosis, æqualibus, septatis, apice obtusis, fuscis, dia- 7498

phanis, 6 μ. crassis; conidiis aut subglobosis, 4 ≃ 3 aut ellipsoideis et utrinque subacutatis, 7 ≃ 4 aut elliptico-cylindraceis uniseptatisve, 17 ≃ 6, dilute fuscidulis, eximie diaphanis.

Hab. ad folia emortua prostratave Photiniæ, Lyon Galliæ.

16. **Cladosporium Condylonema** Passer. in Briosi e Cavara Funghi Parassiti n. 79, F. N. IV, p. 15. — Amphigenum; hyphis fasciculatis, sparsis, septulatis, flexuosis, tuberculoso-nodosis, fuscidulis, 60-180 ≃ 5; conidiis ellipsoideis v. ovatis, medio septatis, olivaceis, 12-20 ≃ 6-10. 7499

Hab. in foliis Pruni domesticæ, quam vexat, Parma Italiæ borealis.

17. **Cladosporium Zizyphi** Karst. et Roum. Rev. Myc. 1890, p. 78. Hypophyllum, maculiforme; hyphis ramosis, articulatis, flexuosis, olivaceis (sub lente), breviusculis, 6-9 μ. cr.; conidiis ovoideo- vel oblongato-elongatis, utrinque obtusis, rectis v. varie curvatis, subinde irregularibus, 1-3-septatis, ad septa non vel vix constrictis, olivaceis, 35-45 ≃ 11. 7500

Hab. in foliis languidis Zizyphi cujusdam ad Sontag, Tonkin.

18. **Cladosporium juglandinum** Cooke Grev. XVI, pag. 80. — Hypophyllum; cæspitulis parvis, sparsis, fuligineis; hyphis septatis, nodulosis, flexuosulis, basi atro-brunneis, sursum pallidioribus, sæpius continuis; conidiis acrogenis, fusoideis, 1-septatis, pellucidis, 35 ≃ 9. 7501

Hab. in foliis Juglandis, Highgate Britanniæ.

19. **Cladosporium lethiferum** Peck 50 Rep. p. 64. — Maculis atro-brunneis, irregularibus, magnis, totum folium sæpe ambientibus; cæspitulis epiphyllis, subeffusis, olivaceo-viridibus; hyphis brevissimis, fere obsoletis; conidiis oblongo-piriformibus, 1-2-septatis, ad septa leviter constrictis, 20-30 ≃ 7,5. 7502

Hab. in foliis vivis, quæ enecat, Populi tremuloidis, Keene Amer. bor.

20. **Cladosporium brevipes** Peck 40 Rep. p. 64. — Maculis suborbicularibus, cinereis; cæspitulis minutis, compactis; hyphis dense brevibus, 25-37,5 μ. long., atro-olivaceis, coacervatis subnigris, amphigenis, septatis; conidiis acrogenis, ellipsoideis, 12,5-15 ≃ 7,5-11,5. 7503

Hab. in foliis vivis Quercus albæ, Menands Amer. bor.

III. *In Monocotyledoneis, Acotyledoneis* etc.

21. **Cladosporium Phœnicis** Fautr. Rev. Myc. 1891, p. 133. — Cæspitulis sparsis, lineariter seriatis, sparsis oblongis v. ovoideis, sub- 7504

strato piceo insidentibus; hyphis rectis, nodulosis, subinde furcatis, pallide olivaceis; conidiis concoloribus, cylindraceo-rotundatis, subapiculatis, 1-3-septatis, subverruculosis, 20-25 ≃ 8-10.

Hab. in foliis exsiccatis Phœnicis tenuis cultæ, Toulouse Galliæ (G. Machade).

22. **Cladosporium dracænatum** Thuem. M. U. n. 1869. — Maculis amphigenis, dilatatis, distinctis, gregariis, fusco-olivaceis; cæspitulis præcipue epiphyllis, medio olivaceis, detergendis evanidis; hyphis brevibus, continuis, subramosis, interdum septatis, fasciculatis, tenuibus, pallide cinereis; conidiis variis aut globosis v. ovato-globosis, 6 ≃ 4 aut ovoideis, 8-12 ≃ 4 aut ovato-clavatis septatisve, 14-18 ≃ 6, utrinque rotundatis, dilute griseis. 7505

Hab. ad folia viva Dracænæ Cooperi, Aiken Carolinæ australis Amer. bor.

23. **Cladosporium Orchidearum** Cooke et Mass. Grev. XVI, p. 80. — Cæspitulis erumpentibus, parvis, præcipue e stromate oriundis, olivaceis; hyphis brevibus, parce ramosis, septatis, subgracilibus, flexuosulis; conidiis ellipsoideis, 1-septatis, pallide olivaceis, 17-18 ≃ 5-6. 7506

Hab. in foliis Orchidearum, Kew Britanniæ.

24. **Cladosporium velutinum** Ell. et Tracy Journ. Myc. 1890, p. 76. — Olivaceo-brunneum, maculiforme, 0,5-1 cm. lat. vel confluendo amplius, velutinum; hyphis erectis, simplicibus, septatis, subundulatis, pallide brunneis, 50-75 ≃ 4-5; conidiis terminalibus, 8-20 ≃ 4-5, subhyalinis, 1-3-septatis, ellipsoideis, oblongis vel subcylindraceis. 7507

Hab. in foliis Phalaridis canariensis, quæ leviter torquentur et incrassantur, Starkville Miss. Amer. bor.

25. **Cladosporium Hordei** Pass. in Brun. Fragm. Mycol. 1884-85, p. 32. — Cæspitulis olivaceis; hyphis fasciculatis, subincrassatis, saturatius olivaceis, simplicibus, articulatis, apice tortuoso-torulosis; conidiis ellipsoideis, 1-(2?-)septatis, 20-25 ≃ 8-10. 7508

Hab. ad folia languida Hordei distichi, Saintes Galliæ.

26. **Cladosporium epibryum** Cooke et Mass. Grev. XVII, p. 76. — Cæspitulis minutissimis, atris; hyphis simplicibus, brevibus, flexuosis, septatis, olivaceis, superne pallidioribus; conidiis ellipticis, utrinque rotundatis, uniseptatis, medio constrictis, pallide fuscis, hyalinis, 18-20 ≃ 10-12. 7509

Hab. in capsulis Muscorum, Amer. bor. (E. G. Britton).

27. **Cladosporium Aphidis** Thum. — Syll IV, p. 369 — var. **Muscæ** 7510

Br. et Har. Rev. Myc. 1890, pag. 132. — Hyphis rectis, ramosis, fasciculatis, aliis continuis, aliis septatis, dilute fuligineis, diaphanis, 5-7 μ. diam.; conidiis numerosis, ovoideis vel ovato-oblongis, basi v. utrinque apiculatis; hyphis concoloribus v. paullo pallidioribus, continuis, 6-8 ≃ 4-5 vel 1-septatis, 10-12 ≃ 6, vel 2-septatis, 20-22 ≃ 7-8.

Hab. in cadavere Muscæ cujusdam, Méry-sur-Seine Galliæ (P. Hariot).

28. **Cladosporium cæspiticium** Rabenh. Fl. Eur. n. 579, Bot. Zeit. 1863, p. 230 (absque diagnosi). Loc. cit. forma conidiophora et f. stylosporea adesse declaratur. 7511

DIPLOCOCCIUM Grove — Sacc. Syll. IV, p 374.

1. **Diplococcium Libertianum** (Roum.) Sacc., *Monilia* Roum. Rev. Myc. 1884, p. 107. — Hyphis late effusis, olivaceo-nigris, erectis, summo apice subinflatis ibique catenulas conidiorum emittentibus; conidiis ovoideis, initio hyalinis, dein fumosis, 1-septatis. 7512

Hab. in caule putri Brassicæ oleraceæ rubræ cultæ pr. Malmedy in Arduennis (Reliq. Libertianæ).

Sect. 3. Phragmosporæ Sacc.

Subsect. 1. Micronemeæ Sacc.

Trib. 1. Clasterosporieæ Sacc.

CLASTEROSPORIUM Schw. — Sacc. Syll. IV, p, 382.

1. **Clasterosporium caulicolum** (Corda) Sacc. Syll. IV, p. 393, *Bactrodesmium caulicola* Grove in litteris. — Conidia sessilia, erecta, dense compacta, cylindrica, utrinque vix attenuata, 6-12-septata, dilute olivacea, pellucida, 60-100 ≃ 8-10.
2. **Clasterosporium tripartitum** Rich. Cat. Champ. Marn. n. 2019. — Cæspitulis nigris, velutinis, mycelio anastomosanti insidentibus, e conidiis ternatim fasciculatis, brunneo-pallidis, fusoideis, apice attenuatis, basi crassioribus, 10-15-septatis, efformatis. 7513

Hab. in caulium emortuorum basi Genistæ scopariæ, Sermaize, Marne Galliæ.

3. **Clasterosporium cornigerum** Ell. et Ev. Proc. Acad. Phil. 1891, p. 91. — Cæspitulis applanatis, 1-2 mm. diam.; hyphis sterilibus repentibus, septatis; hyphis fertilibus, 70-100 ≃ 8-10; conidiis ob- 7514

longo-clavatis, 5-7-septatis, brunneis, 70-100 = 12-15, supra primitus rotundatis, dein truncatis, loculo terminali lateraliter germinante.

Hab. in cortice Carpini emortui, London Canada Amer. bor. (DEARNESS).

4. **Clasterosporium dothideoides** Ell. et Ev. Proc. Acad. Phil. 1891, p. 87. — Cæspitulis per corticis rimas erumpentibus, 0,5 mm. lat., compactis, nigris, dothideoideis; hyphis fertilibus, simplicibus vel imperfecte ramosis, 20-30 = 5-7. 7515

Hab. in ramis emortuis Shepherdiæ argenteæ et Artemisiæ canæ, in valle Teton, Montana Amer. bor. (F. W. ANDERSON).

5. **Clasterosporium Ligustri** Rich. Cat. Champ. Marn. n. 2018. — Cæspitulis griseolis, parum perspicuis, e conidiis pallide brunneis, fusoideo-cylindraceis, 7-septatis, rectis, brevissime stipitatis, efformatis. 7516

Hab. ad ramulos Ligustri vulgaris, St.-Amand Galliæ.

6. **Clasterosporium cæspitulosum** Ell. et Ever. Journ. Mycol. 1889, p. 70. — Cæspitulis laxis, plus minus confertis, nigris, tomentosis v. subeffusis; hyphis prostratis, nullis; conidiis fusoideo-cylindraceis, 10-20-septatis, 100-120 = 12-15, apice subattenuato, distincte rotundato, deorsum in basim stipitiformem abrupte contractis subopacis, rectis, ad septa (mediis exceptis) non constrictis. 7517

Hab. in ligno Aceris, Newfield, New Jersey Amer. bor.

7. **Clasterosporium herculeum** Ellis N. A. fig. 542. — Hyphis copiosis, subfasciculatis, septatis, fuligineis, 5-6 μ. cr.; conidiis (in meo exempl. fere destructis), ut videtur, fusoideis, curvulis, 60 = 10, pauciseptatis, fuligineis, utrinque pallidioribus. 7518

Hab. in ramis Betulæ? et in Hypoxylo vetusto, West Chester Pa. Amer. bor. (HAINES et EVERHART).

8. **Clasterosporium punctiforme** (Corda) Sacc. Syll. IV, pag. 387 — var. **fennicum** Karst. Symb. XX, pag. 98. — Cæspitulis dispersis, pulvinatis, sat compactis, brunneis; conidiis oblongatis, rectis, curvis v. flexuosis, utrinque obtusis, 1-3-rarissime 5-septatis, vix constrictis, dilute olivaceo-fuligineis et diaphanis (sub lente). 13-24 = 5-6, loculis 1-guttulatis. 7519

Hab. in ligno sicco putri Sipilä pr. Tammela Fenniæ.

9. **Clasterosporium typhicolum** Fautrey in Rev. Myc. 1890, p. 125. — Hyphis brevissimis v. nullis; conidiis hyalinis, 3-septatis, conico-truncatis, 24-26 = 8, supra latioribus. 7520

Hab. in omnibus partibus Typhæ angustifoliæ pr. Saulieu, Côte-d'Or Galliæ (F. FAUTREY).

10. **Clasterosporium sarcopodioides** (Corda) Sacc. Syll. IV, p. 385. 7521
— * **Cl. arundinaceum** Karst. Symb. XIX, p. 92. — Effusum, fusco v. griseo-olivaceum, stromate tenuissimo; conidiis cylindraceis rectis, utrinque obtusis, aut uno apice attenuatis, fuligineis et diaphanis (sub. micr.), 10-18-septatis, non constrictis, 106-150 ≈ 11-12.

Hab. in culmis Phragmitis aridis pr. Mustiala Fenniæ.

FUSARIELLA Sacc. Syll. IV, p. 395.

1. **Fusariella cladosporioides** Karst. Hedw. 1891, p. 248. — Cæspitulis effusis, minutis, hypophyllis griseo-olivaceis; hyphis brevissimis, ramosis, articulatis; conidiis bacillaribus, apicem versus attenuatis, curvatis, raro rectis, vulgo pauciseptatis, fumoso-hyalinis v. hyalinis (sub lente), 50-100 ≈ 4-6. 7522

Hab. in foliis Myrti, quæ enecat, Helsingfors Fenniæ (ONNI KARSTEN).

CRYPTOCORYNEUM Fuck. — Sacc. Syll. IV, p. 395.

1. **Cryptocoryneum scopiforme** Bomm. Rouss. Sacc. sp. nov. — Cæspitulis orbicularibus vel suborbicularibus, nigris, 90-225 μ. lat.; conidiis cylindraceis, fuligineis, 5-septatis, ad septa constrictis, 21-22 ≈ 3,5, supra cellulam basilarem senis usque denis, parvulam scopam imitantibus. 7523

Hab. ad culmos Ammophilæ arenariæ, Knocke Belgii et pr. La Haye Hollandiæ.

CERATOPHORUM Sacc. Syll. IV, p. 395.

1. **Ceratophorum ulmicolum** E. et K. Journ. Myc. '1887, p. 127. — Maculis amphigenis, suborbicularibus, sordide brunneis, centro minuto albis, 0,5-1 cm. diam., subconfluentibus, cæspitulis e conidiis efformatis, amphigenis, sparsis, non confluentibus; conidiis sessilibus, ventricoso-fusoideis, basi subhyalinis et subobtusis, supra in rostrum hyalinum, incurvum productis, inflatis, atro-olivaceis, 5-7-septatis, 60-100 ≈ 11-14. 7524

Hab. in foliis vivis Ulmi fulvæ, Manhattan, Kansas Amer. bor. (KELLERMAN et SWINGLE).

2. **Ceratophorum subulatum** Cooke et Ellis. Grev. XVII, p. 67, *Clasterosporium subulatum* Cooke et Ellis in Rev. F. Amer. n. 612. — 7525

Effusum, atrum; hyphis repentibus, ramosis, parcis, septatis; conidiis majusculis, rectis, obclavatis, 5-7-septatis, nucleatis, fuligineis, apice in cuspidem longam, hyalinam, continuam desinentibus, 70-100 ≃ 15, cum cuspide 180 μ. long.

Hab. in cortice Liquidambaris et Castaneæ, Carolina austr. et New Jersey Amer. bor.

Trib. 2. Septonemeæ Sacc.

SEPTONEMA Corda — Sacc. Syll. IV, p. 397.

1. **Septonema Hormiscium** Sacc. Syll. IV, pag. 397 — var. **padinum** Karst. Symb. XX, p. 98. — Cæspitulis tenuibus, effusis, atro-fuligineis; conidiis fusoideo-elongatis vel cylindraceis vel clavulatis, rectis vel curvulis, 3-8-septatis, fuligineis, 50 ≃ 7-9, hyphopodiis articulatis, superne dilute fuligineis, conidia imitantibus, inferne hyalinis. 7526

Hab. ad corticem Pruni Padi in horto Mustiala Fenniæ.

2. **Septonema Mollerianum** Roum. F. Gall. n. 4087, *S. multiplex* Bk. et Curt. N. Ann. Fung. 520 pr. p. — Conidiis in catenulas subramosas, breves confertis, quadrangularibus, regularibus, 2-3 (raro 1-)septatis. 7527

Hab. ad folia dejecta Eucalypti Globuli pr. Coimbra Lusitaniæ (De Moller).

3. **Septonema exile** Karst. Symb. XX, pag. 98. — Effusum, tenue, atrum, mycelio vix ullo; conidiis oblongatis, elongatis vel cylindraceis utrinque rotundato-truncatis, rectis v. curvulis, solito inæqualibus, 1-6-septatis, non constrictis, fuligineis, demum impellucidis, in catenulas erectas rigidas, 120-140 μ. long. digestis, 21-75 ≃ 11-13. 7528

Hab. in cortice adhuc vivo Betulæ pr. Abo Fenniæ. — Inter *S. rude* et *S. atrum* medium.

4. **Septonema nitidum** Karst. Symb. Myc. Fenn. XXVIII, p. 44. — Catenulis conidiorum solitariis vel fasciculatis, simplicibus, atris, nitidis, 100-125 μ. long.; conidiis cylindraceis, 1-3-septatis, ad septa non constrictis, fuscis (sub micr.), 20-40 ≃ 12-15; hyphopodiis conidia imitantibus v. nullis. 7529

Hab. in cortice Alni ad Mustiala Fenniæ.

5. **Septonema griseo-fulvum** Ell. et Ev. Proc. Acad. Phil. 1891, p. 92. Subcompactum, flavido-avellaneum, ambiens, 2 cm. vel ultr. lat.; hyphis intertextis, ramosis, primo hyalinis, septatis, demum in co- 7530

nidia mutatis; conidiis 1-septatis, ad septum sæpius constrictis, 6 9 = 2,5-3, flavido-brunneis.

Hab. in ramis emortuis decorticatis Populi tremuloidis, Sand Coulee Cascade Co. Ma. Amer. bor. (F. W. Anderson).

6. **Septonema episphæricum** Peck 44 Rep. p. 27. — Cæspitulis con- 7531
fluentibus, nigro-brunneis; hyphis catenisque conidiorum sæpe dense fasciculatis, 120-150 μ. long.; conidiis variabilibus, oblongis v. cylindraceis, 1-3-septatis, 12-30 = 5-7, coloratis v. subhyalinis.

Hab. in Diatrype Stigmate sterili, Morehouseville Amer. bor. — Affine ut videtur *Sept. bisporoidi.*

Trib. 3. Helminthosporieæ Sacc.

HELMINTHOSPORIUM Link — Sacc. Syll. IV, p. 402.

I. *In Dicotyledoneis lignosis.*

1. **Helminthosporium parvum** Grove in Journ. of Bot. 1886. p. 203, 7532
tab. 267, fig. — Parce gregarium, fusco-atrum; hyphis erectis, septatis, dilute fuscis, gracilibus, strictis, basi interdum subincrassatis, 80-90 = 3-4, apice in conidium unicum (rarissime bina) evadentibus; conidiis oblongis, tridymis, apice obtuse rotundatis, basi subtruncatis, loculo apicali subquadrato et basali cuneato, luteolis, centrali rotundo, crassiori (inflato), brunneo, 12-15 = 5-6.

Hab. in ligno quercino, Sutton Coldfield prope Birmingham Britanniæ, cum *H. hormiscioide.* Loculus apicalis subinde brunneus, basalis nunquam. *H. coryneoidi* affine.

2. **Helminthosporium reticulatum** Cooke Fung. Brit. I, 360, Grev. XVII, 7533
p. 68. — Reticulato-effusum, maculas irregulares efformantibus; hyphis fasciculatis, flexuosis, tenuibus, septatis, fuscis, ad apicem hyalinis; conidiis subfusiformibus, utrinque obtusis, triseptatis, constrictis, fuscis, 22 = 7.

Hab. in foliis Fraxini, Thirsk, Yorkshire Britanniæ. — Habitus quasi *Asteromatis.*

3. **Helminthosporium resinaceum** Cooke Grev. XVII, p. 68. — Effu- 7534
sum, indeterminatum, atrum, opacum; hyphis simplicibus vel furcatis, septatis, constrictis, crassiusculis, fuligineis; conidiis subfusiformibus, majusculis, 7-septatis, quandoque leniter curvulis, 70 = 10-12, olivaceo-fuscis.

Hab. in resinea pinea, Shere Britanniæ.

4. **Helminthosporium acroleucum** Sacc. Bomm. et Rouss. Fl. myc. Belg. 7535
II, p. 51. — Effusum, nigrum, velutinum; hyphis brunneis, bre-

vissimis, erectis, passim subnodulosis, pluriseptatis, leviter tortuosis, 60-72 × 5; conidiis solitariis apicalibus, olivaceis, pellucidis, anguste clavatis, basi longe attenuatis 5-28-septatis, apice truncatis, verrucâ hyalinâ deciduâ terminatis, 40-160 × 5-7, sæpius 63-66 × 5.

Hab. in ramis decorticatis Sambuci nigræ et Syringæ vulgaris, Groenendael Belgii.

5. **Helminthosporium (?) Cerasorum** (Thüm.) Berl. et Vogl. Add. Syll. n. 3628, *Septosporium Cerasorum* Thüm. in Œster. Landwirth. Wochenbl. 1884, p. 259 et Thüm. et Boll. Contr. Funghi litt. Austr. III, p. 5. — Cæspitulis densissime gregariis, plus minus orbiculatim dispositis, griseo-fuscidulis, in macula suborbiculata, rufo-ochracea, applanata, disciformi, sat magna; conidiis magnis, rectis clavatis vel late fusoideis, brevi pedicellatis, basi angustatis, vertice dilatato-rotundatis, quadri-septemseptatis, succineo-luteis, diaphanis, magnitudine varia, 28-48 × 10-16; hyphis brevibus, nodulosis, dilutioribus, 8 μ. crassis suffultis. 7536

Hab. in fructibus maturis, quos enecat, Cerasi dulci, S. Florian Goritiæ.

6. **Helminthosporium olivaceum** B. et Rav. North Am. Fung. 112. — Tenue, olivaceum; hyphis brevibus e mycelio repente oriundis, flexuosis, nodulosis; conidiis longissimis, lineari-clavatis, 10-12-septatis, singulatim v. binatim acrogenis. 7537

Hab. in foliis Gleditschiæ in Carolina infer. Amer. borealis (Ravenel).

7. **Helminthosporium subolivaceum** Ell. et Ev. Journ. Myc. 1888, p. 44. — Subcæspitosum, per corticem fissum erumpentibus; hyphis erectis, septatis, brunneis, æqualibus, 100-120 × 3-4; conidiis subellipsoides, acrogenis?, primo subhyalinis, dein brunneis et sæpius 3-septatis, ad septa vix constrictis, utrinque subacutis, basi persistenter pedicellatis, 30-40 × 10-14. 7538

Hab. in cortice emortuo Aceris rubri, Clyde, N. Y. Amer. bor. (O. F. Cook).

8. **Helminthosporium subcuticulare** Ell. et Ev. Journ. Myc. 1888, pag. 114. — Primitus cæspitosum, dein interrupte confluens, cuticula secessa, demum liberum, nigrum; hyphis simplicibus, erectis, hyalinis, dein olivascentibus, 20-25 × 4-5; conidiis acrogenis, solitariis, olivaceis, oblongo-cylindraceis, 2-septatis, 25-35 × 15-18. 7539

Hab. in ramis emortuis Negundinis fraxinifolii, Sand Coulee, Montana Amer. bor.

9. **Helminthosporium paraguayense** Speg. Guar. I, p. 165. — Epiphyl- 7540

lum, laxe arachnoideo-velutinum, plagulas fuscas, effuso-orbiculares 2-4 mm. diam., efficiens, maculis nullis; hyphis sterilibus mucedineo-evanescentibus, repentibus parum perspicuis; fertilibus hinc inde penicillatim aggregatis, a basi liberis, erectis, 100-150 ≃ 4, cylindraceis, septulatis, flexuosis vel geniculatis, olivaceis, apice obtuse rotundatis ac pallidioribus; conidiis fusoideis vel fusoideo-clavatis rectis v. vix curvulis superne acutatis, inferne subtruncatis, 3 septatis, 18-25 ≃ 4, non v. vix constrictis, loculis duobus internis obscure olivaceis, duobus extimis pallidioribus, chlorinis.

Hab. ad folia viva Bignoniæ sp. cujusdam in silva subvirginea Caà-guazù Brasiliæ.

10. **Helminthosporium? bombycinum** Speg. F. Fueg. n. 447. — Pulvinulis late effusis, crassiusculis, gossypinulo villosulis, superficialibus, olivaceis; hyphis cylindraceis, 5 μ. cr., simplicibus, flexuosulis, dense intricatis, hinc inde parce noduloso-geniculatis, fuligineis; conidiis acro-pleurogenis, nodulis insidentibus, cylindraceis v. clavulatis, longitudine varia, 20-50 ≃ 4-5, dense septulatis, ad septa non vel constrictis, loculis subcuboideis, levibus, catenulatis, atris. 7541

Hab. ad ramulos vivos Pernettiæ mucronatæ in silvis pr. Agaia in Hoste island Fuegiæ. — Species habitu ac hypharum fabrica ad *Helminthosporium*, conidiis autem catenulatis ad *Dendryphium* accedens sed biogena; an huc *Antennaria scoriadea* Berk.

11. **Helminthosporium martinicense** Thüm. Rev. Myc. 1879, p. 10. — Maculis amphigenis, atris, radiatim orbicularibus, effusis, nitidis, solitariis; hyphis rigidis, subulato-strictis, erectis, simplicibus, obscure fuscis, non septatis, sursum sensim angustatis, apice acutatis; conidiis fusoideis, rectis, utrinque acutis, 16-guttatis, continuis (an semper?), hyalinis, 35 ≃ 7-8. 7542

Hab. in foliis vivis Buxi citrifoliæ in insula Martinica (Hahn).

12. **Helminthosporium obliquum** Karst. Hedw. 1890, p. 272. — Effusum, tenue, atrum; hyphis simplicibus, erectis, subflexuosis, articulatis, fuligineis (sub lente), 90-165 ≃ 10-11 mm.; conidiis fusoideo-oblongatis, rectis vel subcurvulis, sursum leviter attenuatis, apice obliquo, basi subtruncatis usque ad 7-septatis ad septa non constrictis, dilute olivaceis pellucidisque (sub lente), 40-45 ≃ 12-13. 7543

Hab. in ligno putrescente Pini ad Mustiala Fenniæ. — *Helminthosporio septemseptato* proximum.

13. **Helminthosporium collabendum** Cooke Grev. XVII, p. 67. — Effu- 7544

sum, indeterminatum, atrum; hyphis flexuosis, septatis, hinc illinc breviter furcatis, fuscis; conidiis fusiformibus triseptatis (rarius quadriseptatis) aureo-fulvis, 60-70 × 12-14, episporio tenui, collabendo.

Hab. in cortice, Carolina austr.

14. **Helminthosporium minimum** Cooke Grev. XVII, p. 67. — Tenue, 7545
effusum, velutinum, atrum; hyphis erectis, tenuibus, fuscis, vix 100 μ. long. excedentibus; conidiis fusiformibus, utrinque obtusis, triseptatis, hyalinis, 12-14 = 3-4, vix constrictis.

Hab. in ramis decorticatis Hereford Britanniæ.

15. **Helminthosporium armatum** (Lév.) Berl. et Sacc. *Oxysporium* 7546
armatum Lév. in Ann. Sc. Nat. 1863, pag. 300. — Hyphis setiformibus, gregariis, nigris, erectis, rigidis, simplicibus, continuis; conidiis 2-4-locularibus, levibus, acumine inani, lanceolatis, basi adfixis, apice liberis.

Hab. ad ligna vetusta, Villeta Alto del Trigo Novæ Granat. — « Nullis notis ab *Helminthosporiis* differre videtur ».

16. **Helminthosporium guaraniticum** Speg. Guar. pag. 165. — Corti- 7547
colum, laxe tenueque velutinum, plagulas majusculas, effusas, irregulares, olivaceas efficiens; hyphis cylindraceis, erectis, longissimis crassiusculisque, 500-1000 × 10-11, densis, rectis vel vix flexuosulis, septulatis, deorsum atris, sursum sensim dilutioribus, apice vix v. non subinflatulis ac truncatis; conidiis fusoideo-clavatis vel hirundineis, majusculis, 11-13-septatis vel guttatis, 100-120 = 19-20, fuligineis, vertice rotundatis, basi truncatis.

Hab. ad ramulos dejectos emortuos pr. Carapeguá Brasiliæ.

II. *In Dicotyledoneis herbaceis.*

17. **Helminthosporium Sarraceniæ** M. Mill. Bull. Torr. 1891, p. 214. 7548
— Cæspitulis orbicularibus, atris, velutinis, subconfluentibus, totum folium obtegentibus; hyphis fertilibus erectis, fasciculatis, ventricoso-nodosis, 75-150 = 3,5-7,5 guttulatis, brunneis; conidiis e continuo 4-septatis, 7-15 = 3-8, levibus.

Hab. in foliis emortuis Sarraceniæ purpureæ, pr. Minneapolim Amer. bor.

18. **Helminthosporium Libertianum** Roum. Rev. Myc. 1883, pag. 107. 7549
— Cæspitulis nigricantibus; hyphis copiosis, brevibus, flexuosis, furcatis; conidiis fusoideis, olivaceo-fuscis, 11-13-septatis.

Hab. in caulibus siccis Brassicæ oleraceæ rubræ cultæ in hortis Malmedy Arduennæ.

19. **Helminthosporium Matthiolæ** Thüm. et Boll. Contr. Funghi litt. Austr. III, p. 4. — Cæspitulis late effusis, sed tenuibus, laxis, atris; hyphis brevibus, erectis, nodulosis, septatis, pallide ochraceo-brunneis, irregulariter crassis; conidiis longe clavatis, basi in pedicellum longum attenuatis, apice rotundatis, sex-duodecim septatis, ad septa non constrictis, sordide fuscis, 40 = 8-9, pedicello pallidiori, 10-14 μ. long. 7550

Hab. in siliquis aridis adhuc stantibus Matthiolæ incanæ, Goritiæ.

20. **Helminthosporium Euphorbiacearum** Pat. Bull. Socc. Myc. 1891, pag. 182. — Cæspitulis erectis, minutis, gregariis, vermiculariiformibus, maculam cinerescentem caulium obtegentibus; hyphis 5-10 fasciculatim connexis, rigidis, brunneis, septatis, cylindraceis, sursum obtusis pellucidisque, 100-120 = 12-15; conidiis fuligineis, prælongis, 120-160 = 22-25, rectis v. curvulis, fusoideis, inferne abrupte truncatis, superne regulariter attenuatis, levibus, transverse 5-10-septatis. 7551

Hab. in cortice Euphorbiaceæ cujusdam cactoideæ, Panecillo reipubl. Æquatoris Amer. centr.

21. **Helminthosporium Balansæ** Speg. Guar. I, p. 165. — Maculis hypophyllis, effusis, indeterminatis, olivascentibus, sæpe totum folium ambientibus, acervulis in maculis laxe sparsis ex hyphis liberis rectis v. sæpe nodulosis v. geniculatis, 50-100 = 5, parce septatis, olivaceis compositis; conidiis cylindraceis, utrinque obtusissime rotundatis, 1-3-septatis, 20-35 = 5, dilute olivaceis. 7552

Hab. ad folia viva Evolvuli speciei cujusdam in silva Caàguazù Brasiliæ.

III. *In Monocotyledoneis.*

22. **Helminthosporium palmicolum** Pat. et Gaill. Bull. Soc. Myc. 1888, p. 124. — Maculis villosulis, brunneis; hyphis sterilibus fasciculatis, simplicibus, brunneis, septatis; conidiis fusoideis apice truncatis, stipitatis, 11-15-septatis, 60-80 = 12-15. 7553

Hab. in petiolis putridis Palmarum, Atures Venezuela

23. **Helminthosporium spiculiferum** Ell. et Ev. in Journ. of Myc. 1886, pag. 104. — Cæspitulis velutinis, maculis albis, obscure marginatis; hyphis fertilibus effusis, simplicibus, erectis, brunneis, subundulatis, continuis (vel obscure septatis?) 100 = 2,5-3; conidiis oblanceolatis, pallide brunneis, 5-9-septatis, in basim gracilem at- 7554

tenuatis, sursum abruptius contractis, apice truncato, obscuriore, subinde ad unum vel nonnulla septa constrictis.

Hab. in foliis Sabalis Palmetto, Louisiana Amer. bor. (Langlois).

24. **Helminthosporium Palmetto** Gerard Grev. XVII, p. 68. — Tenuissime in plagas orbiculares effusum, quandoque confluens; hyphis erectis, crassiusculis, septatis, fuscis; conidiis fusiformibus triseptatis, aureo-succineis, 45 ≃ 8. 7555

Hab. in foliis Palmetto, Louisiana Amer. bor.

25. **Helminthosporium avenaceum** Curtis Herb., Grev. XVII, p. 67. — Effusum, atrum, tenue velutinum; hyphis erectis, crassiusculis, septatis, subopacis; conidiis cylindraceis v. subfusoideis, utrinque rotundatis, 4-5-septatis, pallide melleis 75-85 ≃ 15. 7556

Hab. in stramine avenaceo in Amer. bor.

26. **Helminthosporium gramineum** Rabh. Herb. Myc. 332, Grev. XVII, p. 67. — Tenuissime effusum; hyphis brevibus, subflexuosis, pallide fuscis; conidiis solitariis, elongato-cylindraceis, 3-6-septatis. 7557

Hab. in foliis languidis Hordei vulgaris, Pappelsdorf Germaniæ. — *H. gracili* affine.

27. **Helminthosporium hadrotrichoides** Ell. et Ev. Journ. Myc. 1888, p. 44. — Maculis elongatis, albis, sæpius præsentibus, plerumque ephiphyllis; hyphis laxe cæspitosis, erectis, fumoso-brunneis, continuis v. 1-2-septatis, 30-35 ≃ 6-7, apice inflatis et 8-12 μ. diam.; conidiis clavato-obovatis v. clavato-cylindraceis, flavido-brunneis. 7558

Hab. in foliis pro parte emortuis Eragrostidis majoris, Faulkland Del. Amer. bor. (A. Commons).

28. **Helminthosporium sigmoideum** Cav. Mat. Lomb. p. 15, t. I, f. 5. — Effusum, atrum; hyphis fertilibus subsparsis, erectis, rigidiusculis, hinc inde nodulosis, 3-10-septatis, simplicibus, olivaceis; 100-150 ≃ 5; conidiis magnis falcato-sigmoideis, utrinque obtusis, 3-septatis, articulis mediis crassioribus, granulosis, dilute olivaceis, extimis hyalinis, 55-65 ≃ 11-14. 7559

Hab. in foliis, vaginis culmisque Oryzæ sativæ pr. Pavia Ital. bor. — Subaffine *H. hyalophæo.*

29. **Helminthosporium Sorokinianum** Sacc. in Zeitschr. f. Pflanzenkr. I, p. 238 (1891) et in Sorok. Ueb. einig. Krankh. etc. p. 15, f. 9. — Cæspitulis fulvescentibus, flocculosis; hyphis fertilibus, elongatis, flexuosis septatis, brunneis ex mycelio endogeno oriundis; conidiis acrogenis, ovato-fusoideis, majusculis, 80-100 ≃ 30, rufo-brunneis, 5-10-septatis, passim lenissime constrictis, rectis curvulisve. 7560

Hab. in spicis Tritici et Secalis in reg. meridionali Ussuriæ Rossiæ. — Ab affini *H. tereti* differt hyphis longioribus conidiis fusoideis et crassioribus.

30. **Helminthosporium foveolatum** Pat. Journ. bot. 1891, p. 321. — 7561
Membranaceum, nigrum, late effusum, e matrice secernibile, 0,5 mm. circ. cr., in superficie irregulariter foveolatum; hyphis erectis, septatis, cæspitosis, flavo-brunneis, 100-200 × 6-8; conidiis concoloribus, longe stipitatis, multiseptatis, rectis vel geniculatis, 40-70 × 7-9.

Hab. in caulibus siccis Bambusæ, Ke So Tonkin.

31. **Helminthosporium caaguazuense** Speg. Guar. I, p. 164. — Epi- 7562
phyllum, laxissime arachnoideo-effusum, tenuissimum, atrum; maculis nullis; hyphis sterilibus repentibus, longe remoteque ramoso-intricatis, parce septatis, subgracilibus, 4 μ. cr., olivaceis; hyphis fertilibus hinc inde sparse exsurgentibus, erectis, subflexuosulis, crassiusculis, 200-250 × 7-7,5, densiuscule septatis sæpeque subnodulosis, fuligineis, apice rotundatis, non vel vix attenuatis, dilutioribus; conidiis elongato-subfusoideis, 50-60 × 8-9, rectis, 5-7-septatis, non constrictis, sursum attenuato-rotundatis, deorsum subcuneato-truncatis, fuligineis.

Hab. ad folia viva Bambusaceæ cujusdam in Pastoreo de Caá-guzù Brasiliæ.

32. **Helminthosporium Bambusæ** Cooke Grev. XX, p. 91. — Cæspi- 7563
tulis compactis, convexis, atris, gregariis, plerumque sphæriæformibus; hyphis fasciculatis, erectis, teretibus, septatis, pallide fuscis v. subfuligineis; conidiis acrogenis, lanceolatis, superne acutis, 3-5-septatis, nec constrictis, pallide fuscis, 60-70 × 12, episporio tenui.

Hab. in Bambusa spinosa Assam. (Mann.)

33. **Helminthosporium tonkinense** Karst. et Roum. Rev. Myc. 1890, 7564
p. 78. — Effusum, crustaceum, atratum vel fusco-atrum; hyphis intricatis, flaccidis, flexuosis, subtorulosis, ramosis, articulatis, dilute fuligineo-olivaceis, 6-9 μ. cr.; conidiis fusoideo-oblongatis vel elongatis, rectis v. leniter curvulis, 3-5 (vulgo) 4-septatis, ad septa non constrictis, olivaceo fuligineis, 78-67 × 13-17.

Hab. in inflorescentia Sporoboli tenacissimi in Ououbi Tonkin. — *H. Ravenelii* affine.

34. **Helminthosporium parasiticum** Sacc. et Berl. F. aliq. Guin. p. 4. — 7565
Hyphis simplicibus erectis, subsparsis, basi incrassatis, fuligineis, apice pallidiori guttuligero, denticulis truncatis sæpe armato attenuatoque, septatis 180-300 × 8; conidiis obclavatis, loculo extimo

valde attenuato, subhyalino, triseptatis, septis distinctissimis, loculis uniguttulatis, pallide ochraceo-lutescentibus, 36-42 ≃ 10-12.

Hab. parasitans in stromate Diaporthes cujusdam in caule Musæ viventis, S. Thomé Afr. occid. (Ad. Fr. Moller). — *Helm. congestum* B. et C., Grev. XVII, p. 68 (ex Cuba). Ob specimina imperfecta, omnino dubium.

BRACHYSPORIUM Sacc. Syll. IV, p. 423.

1. **Brachysporium caliginosum** C. Mass. Contr. Myc. Ver. p. 117, t. IV, 7566
f. 30. — Cæspitulis atro-brunneis, subvelutinis, sæpe effuso-confluentibus; hyphis fertilibus densissime stipatis, subflexuosis, simplicibus, remotiuscule septatis, 100-170 ≃ 5; conidiis concoloribus, caducis, acrogenis, polymorphis, plerumque elliptico-oblongis (junioribus subobovatis), 0-3-septatis, 9-20 ≃ 5-7, episporio minutissime granulato.

Hab. in sarmentis siccis Vitis viniferæ, Tregnago in agro veronensis. — *B. oosporo* affine.

2. **Brachysporium serpens** Karst. et Har. Rev. Myc. 1890, n. 47. 7567
— Cæspitulis effusis, tomentosis, fuscis; hyphis longissimis, ramosis, articulatis, fuligineis pellucidisque (sub lente), 5-6 μ. cr., conidiis ellipsoideis, obtusis, 3-septatis, ad septa non constrictis, fuligineis sub lente, loculis ultimis hyalinis, 16-18 ≃ 9-10.

Hab. supra ligna putrescentia Ville-sur-Terre depart. Aube Galliæ.

3. **Brachysporium Sarraceniæ** M. Mill. Bull. Torr. 1891, p. 214. — 7568
Cæspitulis ut in *Helminthosporio Sarraceniæ;* conidiis plerumque sphæricis, pluriseptatis, e loculis 8-12 compositis, obscure fuscis v. carbonaceis, 15-30 ≃ 15-30, echinulatis.

Hab. in foliis emortuis Sarraceniæ purpureæ, Minneapolis Amer. bor.

4. **Brachysporium Crepini** (West.) Sacc. Syll. IV, p. 430 — Var. **minus** 7569
Cfr. Karst. et Har. Journ. Bot. 1890, p. 363. — Differt conidiis multo minoribus, 30-44 ≃ 14, fuliginosis, hyphis 6-8 μ. cr.

Hab ad frondem Ophioglossi, Mery-sur-Seine Galliæ.

OPHIOTRICHUM Fr. Summa p. 503, Sacc. Syll. IV, p. 761 (Etym. *ophis* serpens et *thrix* capillus). — Hyphæ repentes radiantes, atræ, septatæ. Conidia ovoideo-oblonga, 2-pluriseptata, fuliginea pleurogena. — Habitus *Meliolæ*, cujus forte st. conidicum sistit.

1. **Ophiotrichum Acalyphæ** Thüm. Rev. Myc. 1879, p. 10. — Maculis 7570

stellari-ramosis vel radiantibus, epiphyllis, orbiculatis, primo albidis, demum ochraceis, gregariis, postremo grumosis; hyphis externis dilute fuscis, internis hyalinis, magnis, longis, interdum septatis, apice acutatis; conidiis longe ellipsoideo-ovoideis, vertice subobtusatis, apice subacutis, 2-3-septatis, ad septa non constrictis, fusco-brunneis, 12 ≃ 5.

Hab. ad folia Acalyphæ levigatæ in insula St. Domingo (C. Keck).

CERCOSPORA Fres. — Sacc. Syll. IV, p. 431.

I. *In Dicotyledoneis herbaceis.*

1. **Cercospora Calthæ** Cooke Grev. XVII, p. 65. — Maculis orbicularibus, epiphyllis, fuscis; hyphis brevibus, hyalinis; conidiis cylindraceis, subattenuatis, septis vix distinctis, 30-35 ≃ 2. 7571

Hab. in foliis languidis Calthæ, Forres Britann. bor.

2. **Cercospora Aquilegiæ** Kell. et Sw. Journ. Mycol. 1889, p. 74. — Maculis amphigenis, purpureo-brunneis, sparsis v. subinde confluentibus, 3-15 ≃ 1,5-5 mm., irregulariter linearibus v. oblongis, interdum subquadrangularibus; cæspitulis minutis, ex hyphis 2-6, laxis compositis; hyphis fuscis, simplicibus, vix attenuatis, apice vulgo valide geniculato-dentatis, 50-145 ≃ 4-6,5; conidiis paucis, hyalinis, flagellatis, basi obtusis, crassioribus, apice gracillimis et acuminatis, 140-310 ≃ 4,5-6 (basi), apice 1,5-3 μ. cr. 7572

Hab. in foliis radicalibus Aquilegiæ canadensis, Manhattan, Kansas Amer. bor.

3. **Cercospora Menispermi** E. et Holw. Journ. Myc. 1888, p. 6. — Hypophylla; maculis parvis, indefinitis, atro-brunneis, demum orbicularibus, 2-5 mm. diam., subtus concavis et plus minus confluentibus, cæspitulis e basi subsphærica, tuberculari, circ. 35 μ. diam., exsurgentibus; hyphis subrectis, pallide brunneis, sæpius continuis, 75-80 ≃ 4, supra geniculato-sinuatis; conidiis obclavatis, 40-60 ≃ 5-7, pallide brunneis, guttatis, dein 3-5-septatis, sæpe multo brevioribus, obovatis v. oblongo-ellipsoideis, 1-3-septatis, 15-25 ≃ 5-7. 7573

Hab. in foliis vivis Menispermi canadensis, Decorah, Jowa et Manhattan Kansas Amer. bor. (W. T. Swingle).

4. **Cercospora Nasturtii** Pass. — Syll. IV, p. 433 — var. **Sisymbrii** Bäuml. F. Schemn. I, p. 11. — Hyphis in cæspitulos collectis, 60-100 ≃ 7, fuscis, sursum hyalinis et denticulatis; conidiis 100-120 ≃ 3-6, clavatis, hyalinis. 7574

Hab. in foliis Sisymbrii austriaci pr. Schemniz Hungariæ.

5. **Cercospora Bizzozeriana** Sacc. et Berl. F. Ven. nov. p. 20, t. XIV, 7575
f. 23. — Maculis albidis, margine obscuriori angusto cinctis, orbicularibus v. confluendo difformibus, 0,3-0,5 cm. diam.; cæspitulis hypophyllis, parcis; hyphis fasciculatis, continuis, nodulosis, dilute fuligineis, sursum pallidioribus, 80-90 × 4-5; conidiis longe cylindraceis apice rotundatis, crebre septatis, e nodulis oriundis rectis v. vix flexuosis, 120-126 × 5-7, hyalinis, subinde minoribus vix 50-60 μ. long.

Hab. in foliis vivis Lepidii latifolii, Padova Ital. bor. (Bizzozero).

6. **Cercospora Cruciferarum** E. et E. Journ. Mycol. 1887, p. 17. — 7576
Maculis amphigenis, rotundis, albis, margine atro elevato cinctis, minutis, 1–2 mm. diam.; hyphis cæspitulosis, amphigenis fuscis, distincte septatis, subgeniculatis, apice subtruncatis et grosse denticulatis, 80-120 × 4-5; conidiis angustis, tenuiter multiseptatis, 100-150 × 4,5, hyalinis.

Hab. in foliis Raphani et Sisymbrii, Missouri et Delaware Amer. bor. (Galloway et Commons).

7. **Cercospora Impatientis** Bäuml. F. Schemn. I, p. 11. — Maculis ro- 7577
tundatis demum irregularibus, arescendo griseis vel albidis, fusco-cinctis; cæspitulis epiphyllis minutis brunneis; hyphis fasciculatis, nodulosis, ramulosis, continuis, 50-80 × 3-7, brunneis; conidiis elongatis, 30-50 × 5-8, dilute brunneis, 1-4-septatis.

Hab. in foliis vivis Impatientis Nolitangere, Beluj pr. Prencow Hungariæ.

8. **Cercospora Tropæoli** Atk. Cerc. Alab. p. 27. — Maculis amphi- 7578
genis, dilutissime brunneis, supra margine angusto, elevato cinctis, suborbicularibus, 2-4 mm. lat.; hyphis epiphyllis, in quoque cæspitulo paucis, validis, brevibus, pallidissime fuligineis, 20-40 × 5, dentatis; conidiis hyalinis, basi validiusculis, supra abrupte longeque attenuatis, multiseptatis, 50-150 × 3,5–4,5.

Hab. in foliis Tropæoli culti, Auburn, Alabama Amer. bor. (Atkinson).

9. **Cercospora columbiensis** E. et E. Journ. Mycol. 1887, p. 15. — 7579
Maculis amphigenis, minutis, 1 mm. diam., rotundis albis, atro-marginatis; hyphis solito epiphyllis, e tuberculo minuto cæspitosis, pallide brunneis, simplicibus, sursum subdentatis, 35-55 × 4-5, continuis; conidiis hyalinis, angustis, 4-5-septatis, 60-80 × 3.

Hab. in foliis Jonidii concoloris, Columbia Mo. Amer. bor. (Galloway). — Affinis *C. tandilensi*, sed bene distincta.

10. **Cercospora Ii** Trail Trans. Crypt. Scot. 1889, p. 48. — Maculis 7580
amphigenis, 2–5 mm. diam., sordidis, dein pallidis, indeterminatis, fusco-marginatis; hyphis sterilibus repentibus, ramosis, fertilibus erectis, continuis, sursum denticulatis, 30–40 × 4–5; conidiis cylindraceis, passim sursum tenuatis, rectis curvulisve, 20–60 × 5–7, solitariis (semper?), 3–6-septatis.

Hab. in foliis Violæ palustris, Dalmally et pr. Inveraray Scotiæ.

11. **Cercospora Violæ-silvaticæ** Oud. Microm. I, pag. 12. — Maculis 7581
amphigenis suborbicularibus, aridis, pallescentibus; mycelio endophyllo, denso, fuligineo, ramosissimo, septato; hyphis fertilibus erectis, cylindraceis, subnodosis, fuscescentibus, brevibus, parce septatis; conidiis hyalinis cylindraceis, 3-7-septatis, curvatis, apice obtusissimis, basi truncatis, 45-70 × 4,5.

Hab. in foliis Violæ silvaticæ, Apeldoorn Nederlandiæ.

12. **Cercospora Violæ-tricoloris** Br. et Cav. Fung. Parass. n. 185. — 7582
Maculis suborbicularibus, magnis, cinereis; hyphis e tuberculo parenchymatico subepidermico ortis, 60–100 μ. longis, cylindraceis, flexuosis, denticulatis, septatis, olivaceis; conidiis clavulatis, pluriseptatis, dilute chlorinis, 100–200 × 3–4.

Hab. in foliis Violæ tricoloris cultæ in horto bot. Pavia Ital. bor. — Ab affini *C. Violæ* differt hyphis multo longioribus, septatis e tuberculo subcutaneo oriundis.

13. **Cercospora Lini** E. et E. Journ. Myc. 1887, pag. 16. — Maculis 7583
definitis nullis; cæspitulis effusis, folium ad flavum vergentibus; hyphis simplicibus, subolivaceis, continuis, cæspitulos parvos, densos, 35–40 μ. alt. efformantibus; conidiis gracilibus, 40–60 × 2,5-3, guttulatis, fumoso-hyalinis, subcurvulis, sursum sensim attenuatis.

Hab. in foliis languidis Lini virginiani, Faulkland, Delaware Amer. bor. (A. Commons).

14. **Cercospora Brunkii** Ell. et Gall. Journ. Myc. 1890, p. 33. — Ma- 7584
culis amphigenis, dilute brunneolis vel pallide lateritiis, orbicularibus vel ovalibus, $^3/_4$-$2^1/_4$ mm. diam., margine angusto, subelevato, subobscuriore cinctis; hyphis amphigenis, pallide brunneis, 90-200 × 3-5, subgeniculatis, 2–5-septatis, cæspitulos laxos, effusos efformantibus; conidiis clavato-cylindraceis, hyalinis, 5-20-septatis, 50–125 × 3–4 (basi).

Hab. in foliis Geranii sp. cultæ, Brazos County, Texas Amer. bor. (Prof. T. L. Brunk). — A *C. Geranii* hyphis obscurioribus, conidiis multiseptatis et majoribus diversa.

15. **Cercospora Geranii** Kell. et Swing. Journ. Mycol. 1889, p. 74. — 7585
Maculis amphigenis, brunneolis v. fuscis, ex ovato sublinearibus, sæpissime pallide rubro-cinctis, 2-8 ≃ 1,5-4 mm.; cæspitulis amphigenis, crebre æqualiterque sparsis, minusculis, sæpius e stomatibus assurgentibus; hyphis brunneolis, 25-50 × 3-4, simplicibus, basi parce septatis, apice sinuato-subdenticulatis; conidiis copiosis, hyalinis, cylindraceis vel clavatis, utrinque acutis, 1-5-septatis, non constrictis, 36-98 ≃ 1,5-3.

Hab. in foliis languidis Geranii carolinïani, St. George, Pottawatomie County Amer. bor.

16. **Cercospora Cleomes** Ell. et Halst. Journ. Myc. 1890, p. 34. — 7586
Maculis amphigenis, suborbicularibus, griseis anguste atro-marginatis, 2-4 mm. diam.; hyphis amphigenis, laxe cæspitosis, pallide brunneis, septatis, geniculatis, 75-100 ≃ 3,5-4; conidiis angustis, hyalinis, multiseptatis, 75-100 × 3-3,5.

Hab. in foliis Cleomes pungentis, New Brunsvick N. J. Amer. bor. — A *C. Capparidis* satis diversa.

17. **Cercospora lathyrina** Ell. et Ev. Proc. Acad. Phil. 1891, p. 91. — 7587
Maculis ferrugineo-brunneis, dein centro pallidioribus, subepiphyllis, subindefinite limitatis, 2-5 mm. diam.; hyphis epiphyllis, cæspitosis, brunneolis, sursum flexuosis, parce septatis, 75-100 ≃ 4; conidiis angustis, hyalinis, tenuissime 1-3-septatis, 80-110 ≃ 3.

Hab. in foliis vivis Lathyri latifolii culti, Newfield N. J. Amer. bor.

18. **Cercospora Vignæ** E. et E. Journ. Myc. 1887, p. 19. — Maculis 7588
amphigenis, minutis, irregularibus, rufo-brunneis; cæspitulis effusis, fumoso-olivaceis, strata velutina formantibus; hyphis brevibus, 35-45 ≃ 4-5, curvis, sursum patentibus et subdentatis, pallide brunneis, subcontinuis; conidiis angustis demum 3-5-septatis, 70-110 ≃ 3, hyalinis, nucleatis.

Hab. in foliis Vignæ luteolæ, Louisiana Amer. bor. (Langlois). — Diversa a *C. canescente*, quacum sæpe nascitur in eodem folio.

19. **Cercospora Fabæ** Fautr. Rev. Myc. 1891, p. 13. — Maculis con- 7589
centrice zonatis, sæpe confluentibus, atro-purpureis, centro griseis; hyphis sterilibus reticulatim intertextis, fertilibus erectis, fasciculatis, epiphyllis, violaceis, dentatis, majoribus 60 × 6; conidiis 7-9-septatis, sæpe uno apice attenuatis, 60-110 ≃ 5-7.

Hab. in foliis Viciæ Fabæ (minoris) Clamercy, Côte-d'Or Galliæ (F. Fautrey),

20. **Cercospora Dolichi** Ell. et Ever. Journ. Mycol. 1889. p. 71. — 7590
Amphigena sed sæpius hypophylla; maculis rubidis; cæspitulis parvis, inæqualiter sparsis, basi tuberculari destitutis; hyphis olivaceis, 20-35 ≃ 4-5, simplicibus vel supra subdenticulatis, continuis vel obscure 1-2-septatis; conidiis tenuiter obclavatis, hyalinis, 3-5- vel pluriseptatis, 50-100 ≃ 3,5-4.

Hab. in foliis Dolichi sinensis, Starkville, Missouri Amer. bor. (Prof. S. M. Tracy).

21. **Cercospora flagellifera** Atk. Cerc. Alab. p. 19. — Maculis amphi- 7591
genis, suborbicularibus v. angulosis, 3-4 mm. lat. v. magnis et indefinite limitatis, superne atro-brunneis, inferne pallidioribus; hyphis amphigenis, compactiuscule fasciculatis v. effusis, rubenti-brunneis, apice flexuosis et dentatis aut cylindraceis, 40-150 × 4-5; conidiis hyalinis, longissimis et gracilibus, multiseptatis, 70-250 × 2,5-3 (basi).

Hab. in foliis Galactiæ pilosæ et Lespedezæ, Auburn, Alabama Amer. bor. (Atkinson).

22. **Cercospora Daleæ** E. et K. Journ. Myc. 1888, p. 6. — Cæspi- 7592
tulis densis, sphæræiformibus et subseriatis aut elongatis et gregariis; hyphis simplicibus, brunneolis, rectis, supra subdenticulatis, 25-30 ≃ 4-5; conidiis obclavato-cylindraceis, brunneolis, 1-2-septatis, 30-40 ≃ 3-4.

Hab. in caulibus emortuis Daleæ laxifloræ, Kansas Amer. bor. (Kellerman et Swingle).

23. **Cercospora Medicaginis** Ell. et Ev. Proc. Acad. Phil. 1891, p. 91. 7593
— Maculis ferrugineo-brunneis, demum sordide brunneis, suborbicularibus et subindefinite limitatis, 3-5 mm. diam.; hyphis amphigenis sed superne crebrioribus, subhyalinis, dein flavido-brunneis, continuis, geniculatis, 35-45 ≃ 4-5; conidiis cylindrico-fusoideis, 3-6-septatis, 40-60 ≃ 3.

Hab. in foliis Medicaginis denticulatæ, College Station Texas Amer. bor. (H. S. Jennings). — Cæspituli late dense effusi, stratum ferrugineo-brunneum formantes.

24. **Cercospora Davisii** Ell. et Ev. Proc. Acad. Phil. 1891, p. 2.). — 7594
Maculis amphigenis, atro-brunneis, suborbicularibus, 0,2-0,5 cm. diam., margine subindefinitis; hyphis amphigenis, cæspitosis, pallide brunneis geniculatis, curvatis, subseptatis, 40-50 ≃ 5; conidiis variabilibus, oblongo-cylindraceis v. obclavatis, 20-80 ≃ 4-5, multinucleatis, dein 5-6-pluriseptatis.

Hab. in foliis Meliloti albæ, Racine Wis Amer. bor. — Differt a *C. Meliloti* Oud.

25. **Cercospora Meliloti** Oud. Contr. Flor. Myc. Pays-Bas XI, p. 51, 7595
vix *Depazea Meliloti* Lasch, Syll. III, p. 63. — Maculis albidis, orbicularibus, ovatis v. oblongis, 2-4 mm. diam.; hyphis fertilibus e pseudostromate parenchymatico, subcutaneo, sphæroideo, atro orientibus, epidermidem fasciculatim perforantibus, brunneolis, septatis, 20-69 ≃ 3-4, plus minusve flexuosis; conidiis bacillaribus v. obclavatis, uni- pluriseptatis, 23-65 ≃ 2-3, hyalinis.

Hab. in foliis Meliloti officinalis prope Nymègue Hollandiæ. — Cfr. *Septoria Meliloti*, supra p. 362.

26. **Cercospora Solimani** Speg. Guar. I, p. 167. — Maculis amphi- 7596
genis, fuscescenti-atris, suborbicularibus, 1-3 mm. diam., determinatis, rigido-coriaceis; acervulis centro macularum laxe insidentibus, subpenicillatis, 80-150 ≃ 30-50, ex hyphis gracilibus elongatis, 70-150 ≃ 3-3,5 olivaceis, remote septulatis, basi subcoalescentibus, superne liberis compositis; conidiis cylindraceo- v. fusoideo-clavulatis, 30-40 ≃ 4, fumosis v. chlorinis, utrinque acutiuscule rotundatis, 3-5-septatis, non constrictis.

Hab. ad folia viva v. languida Leguminosæ cujusdam cultæ, Soliman pr. Caà-guazù Brasiliæ.

27. **Cercospora Stylosanthis** Speg. Guar. I, p. 169 (1886). — Macu- 7597
lis fusco-rubiginosis, orbicularibus v. confluendo repando-irregularibus, majusculis, sæpius ramulos ac ochroas totas ambientibus, squamuloso-pustulosis; acervulis olivaceis, in maculis hinc inde densiuscule erumpentibus, compactiusculis, ex hyphis cylindraceis, continuis, rectis vel vix flexuosulis, 35-50 ≃ 5, apice truncatulis, rubiginosis, asperulo-rugulosis, efformatis; conidiis cylindraceo-clavulatis, rectis vel vix flexuosis, 3-5-septatis, nubilosis, rubiginosis, utrinque obtusiusculis, 35-45 ≃ 4-5, levibus.

Hab. ad caules vivos Stylosanthis cujusdam in silva Caàguazù Brasiliæ.

28. **Cercospora Commonsii** Sacc., *Cercospora Stylosanthis* E. et E. 7598
Journ. Myc. 1887, p. 13, vix Speg. — Hypophylla; cæspitulis subconfluentibus, subolivaceis; hyphis dense cæspitosis, brevissimis, 15-20 ≃ 4-5, simplicibus, sursum tenuatis, sæpius integris, pallide brunneis; conidiis obclavatis, angustis, 50-75 ≃ 3, tenuiter 3-5-septatis, flavido-hyalinis.

Hab. in partibus emortuis brunneis indefinite limitatis foliorum Stylosanthis elatioris, Delaware Amer. bor. (Commons). — A præcedente videtur satis diversa.

29. **Cercospora Sedoidis** E. et E. Journ. Myc. 1888, p. 4. — Am- 7599

phigena; maculis indefinitis, inconspicuis, vix rubiginosis, 1/4-1/2 cm. diam., supra distinctioribus et plus minus confluentibus; cæspitulis paucis, effusis, e folii stomatibus sæpius exsurgentibus; hyphis continuis, 15-20 ≃ 2,5-3, subfuscis, supra subdenticulatis et subundulatis v. fere integris; conidiis gracilibus, obclavato-linearibus, flavido-hyalinis, 2-4-septatis, sæpius 40-55 ≃ 2,5-4.

Hab. in foliis vivis Penthori sedoidis, Manhattan, Kansas (W. T. Swingle) et Jowa (Doct. Halsted) Amer. bor.

30. **Cercospora Apii** Fres. — Syll. IV, p. 442 — var. **Carotæ** Passer. Diagn. F. N. IV, p. 15. — Amphigena; maculis parvulis, in folii lobulis fuscis, dein expansis; hyphis brevibus, fasciculatis, rectis, septulatis, hyalinis; conidiis bacillaribus vel vix clavulatis, rectis, hyalinis, integris vel interdum endoplasmate diviso, spurie septatis, 30-65 ≃ 3,5-4. 7600

Hab. in foliis languidis et mox consumptis Dauci Carotæ in hortis, Parma Ital. bor.

31. **Cercospora Sii** Ell. et Ever. Journ. Mycol. 1889, p. 71. — Sæpius hypophylla; maculis in hypophyllo flavidis, in epiphyllo nigris; cæspitulis densis, demum confluentibus 2-3 mm. lat.; hyphis laxe fasciculatis, fumosis v. olivaceo-hyalinis, 40-60 ≃ 5, supra dentatis et sinuatis, continuis v. parce septatis; conidiis acro-pleurogenis, oblongo-cylindraceis, sæpius 1-septatis, vix curvulis, granulosis, 20-45 ≃ 5-7. 7601

Hab. in foliis Sii cicutifolii, Racine. Wisconsin Amer. bor. (Doct. J. J. Davis).

32. **Cercospora Polytæniæ** E. et E. Journ. Myc. 1887, p. 104. — Cæspitulis densis, sphæræformibus, maculis atris, 3-4 mm. lat, suborbicularibus vel ellipsoideis, centro sordide albis; conidiis hyalinis, granulosis, dein 1-3-septatis, 70-100 ≃ 4-5. 7602

Hab. in foliis Polytæniæ Nuttallii, Manhattan, Kansas Amer. bor. (W. T. Swingle).

33. **Cercospora Osmorrhizæ** Ell. et Ev. Proc. Acad. Phil. 1891, p. 89. — Maculis amphigenis, griseo-albis, 2-3 mm. diam., in areis emortuis indefinite limitatis sitis; hyphis laxe fasciculatis, 60-70 ≃ 3, parce septatis, subolivaceis, sursum flexis denticulatisque in quoque fasciculo paucis; conidiis angustis, multiseptatis, hyalinis, 80-120 ≃ 3-4. 7603

Hab. in foliis Osmorrhizæ longistylæ, Newark Del. (Commons), Racine Wis. Amer. bor. (Davis).

34. **Cercospora Hydrocotyles** E. et E. Journ. Myc. 1887, p. 16. — 7604

Maculis amphigenis, rubro-brunneis, 2-3 mm. definitis, supra convexis, subtus concavis; hyphis amphigenis, minute cæspitulosis, dense sparsis, pallide brunneis, brevibus, effusis, circ. 20 × 3, continuis, subintegris; conidiis subcylindraceis, subhyalinis, 30-40 × 3, guttulatis.

Hab. in foliis Hydrocotyles interruptæ, Luisiana Amer. bor. (Langlois).

35. **Cercospora platyspora** E. et Holw. Journ. Myc. 1887, p. 16. — 7605
Maculis amphigenis, parvis, 1-2 mm. lat., irregularibus, venulis folii partim limitatis, lignicoloribus, brunneis; cæspitulis hypophyllis, nigris, laxis, creberrime sparsis sed non confluentibus; hyphis apice sæpe subuncinatis, plerumque lateraliter ramulosis, rubiginosis, continuis v. vix v. parce septatis, effusis, subundulatis, 50-70 × 5-6; conidiis subhyalinis, oblongis, granulosis, medio indistincte 1-septatis, utrinque obtusis, sæpius 35-40 × 6-7.

Hab. in foliis Ziziæ integerrimæ, Racine, Wis. Amer. bor. (Doct. J. J. Davis).

36. **Cercospora Ziziæ** E. et E. Journ. Myc. 1887, p. 16. — Maculis 7606
brunneis, dein centro griseis, subrotundis, 3-5 mm. lat.; hyphis fertilibus, erectis, fumoso-brunneis, subrectis, integris, cæspitosis, sæpius epiphyllis, 3-8 in quoque cæspitulo, 50-60 × 6-7; conidiis hyalinis, cylindraceo-clavatis, multiseptatis, 100-130 × 4.

Hab. in foliis Ziziæ cordatæ, West Chester, Pa, Amer. bor.

37. **Cercospora Gauræ** Kell. et Sw. Journ. Mycol. 1889, p. 75. — 7607
Maculis amphigenis, definitis, subolivaceis, indefinite rubido-cinctis, suborbicularibus, ovatis vel rotundato-angulosis, circ. 5-10 mm. diam.; cæspitulis sæpius epiphyllis, primo parvis, dein majoribus, 40-100 μ. diam.; hyphis dense gregariis, brevibus, simplicibus, continuis, subfuscis, apice subattenuatis, 15-30 × 2,5-4, sæpius 10-25 × 3-4, supra sæpe dentatis, subtus subinde incurvis v. valde dentatis; conidiis hyphis concoloribus, lineari-clavatis, 3-7-septatis, 40-108 × 2-4.

Hab. in foliis Gauræ biennis, Columbus, Kansas Amer. bor.

38. **Cercospora Jussiææ** Atk. Cerc. Alab. p. 18. — Epiphylla; ma- 7608
culis albis, indefinite purpureo-cinctis; hyphis fasciculatis, rubentibus, septatis, apicem versus geniculatis dentatisque, 40-120 × 4-4,5; conidiis hyalinis, obclavatis, 3-10-septatis, 100-150 × 4.

Hab. in foliis Jussiææ leptocarpæ et J. decurrentis, Auburn, Alabama Amer. bor.

39. **Cercospora Ludwigiæ** Atk. Cerc. Alab. p. 26. — Maculis amphi- 7609

genis, subcircularibus, irregularibus, rubro-brunneis v. purpureis, subinde centro albidis, 1-3 mm. diam.; hyphis epiphyllis, dense fasciculatis, e basi tuberculari assurgentibus, brevibus, olivaceo-brunneis v. dilute fuligineis, rectis v. flexuosis, 20-30 ≃ 4,5; conidiis gracilibus, teretibus, rectis v. curvis, subinde guttulatis, 3-10-septatis, vix coloratis, 25-100 ≃ 2,5-3.

Hab. in foliis Ludwigiæ alternifoliæ, Auburn, Atkinson Amer. bor.

40. **Cercospora Mitracarpi** Speg. F. Puigg. n. 462. — Maculis indeterminatis, majusculis, sæpe totum folium ambientibus, superne pallescentibus, inferne fulvescentibus, sæpe obsoletis, sed fere semper ad epiphyllum concentrice rugosis; cæspitulis epiphyllis, erectulis, 80-130 ≃ 28-30, sæpe totam maculam obtegentibus, e 5 v. 20 hyphis laxe subfasciculatis, base tantum conjunctis, apice obtusis, 3-7-septatis, levibus, pellucidis, olivaceis efformatis; conidiis e cylindraceo clavulatis, 30-40 ≃ 9-14, apice obtuse rotundatis, basi attenuato-truncatis, 4-6-locularibus, loculis sæpius nucleo majusculo cruciformi præditis, levibus, pellucidis, fuligineo-olivaceis. 7610

Hab. ad folia viva Mitracarpi sp. in campis prope Apiahy Brasiliæ.

41. **Cercospora Prenanthis** E. et K. Journ. Myc. 1887, pag. 104. — Amphigena; maculis nullis; cæspitulis punctiformibus, minutis, nigris, sparsis vel plus minus in areis folii venulis limitatis gregariis; hyphis continuis, 25-35 ≃ 4, subolivaceis, simplicibus, integris; conidiis obclavato-cylindraceis, guttulatis, granulosis, subhyalinis, 50-60 ≃ 5-6. 7611

Hab. in foliis vivis Prenanthis asperæ, Manhattan, Kansas Amer. bor. (W. T. Swingle).

42. **Cercospora Elephantopi** E. et E. Journ. Myc. 1887, pag. 15. — Maculis indefinitis, sordide brunneis, atro-purpureo-marginatis, 2-4 mm. diam., infra obscurioribus; cæspitulis subeffusis, stratum velutinum fumoso-brunneum v. demum cæsio-murinum formantibus; hyphis amphigenis, sed infra crebrioribus, brevibus, 25-35 ≃ 3, continuis, fumoso-brunneis, simplicibus et subintegris; conidiis angustis, 75-100 ≃ 3, multinucleatis, flavido-hyalinis, sursum sensim tenuatis. 7612

Hab. in foliis Elephantopi caroliniensis, Delaware et Missouri Amer. bor. (Commons et Galloway).

43. **Cercospora obesa** E. et E. Journ. Myc. 1888, p. 5. — Maculis irregularibus, griseo-brunneis, 2-5 mm. diam., mox confluentibus, 7613

infra tomento folii albo velatis; hyphis oblongo-cylindraceis, simplicibus et continuis, hyalinis v. subhyalinis, 45 × 6–7, subintegris, supra stratum latum cinereum formantibus; conidiis oblongo-obclavatis, utrinque obtusis, 1-septatis, passim 4-5-septatis, constrictulis, 50-60 × 5-6.

Hab. in foliis Cnici, Manhattan, Kans. Amer. bor. (Swingle).

44. **Cercospora asterata** Atk. Cerc. Alab. p. 18. — Maculis amphigenis, circ. 6 mm. lat., folii margine sæpius insidentibus, sordide griseis, nigro-limitatis, extus rubenti-cinctis; hyphis amphigenis, fasciculatis, atro-rubro-brunneis, apice subhyalinis, septatis, geniculatis, subflexuosis, torulosis v. denticulatis, minute guttulatis, 70-120 × 4,5; conidiis hyalinis, subcylindraceis, utrinque sensim attenuatis, septatis, 30-50 × 3. 7614

Hab. in foliis Asteris, Auburn, Alabama Amer. bor. (Atkinson).

45. **Cercospora Perfoliati** Ell. et Ever. Journ. Mycol. 1889, pag. 71. — Hypophylla; hyphis decumbentibus, sursum adscendentibus, 30-40 × 4-5, guttatis, continuis, brunneolis, supra subintegris et obtusis, in cæspitulos suborbiculares, brunneos effusis, non definite limitatis, demum confluentibus; conidiis elongatis, pallide tabacinis, guttatis, dein 1-septatis, 20-35 × 5-6. 7615

Hab. in foliis vivis Eupatorii perfoliati, Racine, Wisconsin Amer. bor. (Doct. J. J. Davis). — Pagina superior foliorum pustulis flavidis, demum atro-brunneis notata.

46. **Cercospora Ageratoidis** Ell. et Ever. Journ. Mycol. 1889, p. 71. — Hypophylla; cæspitulis effusis, olivaceis, velutinis, 1-3 mm. diam., subangulosis, folii venulis limitatis, demum confluentibus et fere tabacinis; hyphis in quoque cæspitulo 5-8, simplicibus, septatis, brunneis, supra subundulatis, 50-90 × 4; conidiis cylindraceis v. lanceolatis, 40-75 × 3,5-5, pallide olivaceis, 4-6-septatis. 7616

Hab. in foliis vivis Eupatorii ageratoidis, Newfield, New Jersey Amer. bor. — *C. clavatæ* valde affinis.

47. **Cercospora tabacina** E. et E. Journ. Myc. 1886, p. 6. — Cæspitulis sæpius hypophyllis, tabacinis, folii venulis limitatis, subeffusis; hyphis brunneis, gracilibus, septatis, abrupte incurvis, supra ramulis 1-pluribus vix evolutis, sæpius donatis, 100-150 × 4; conidiis hyalino-brunneolis, nunc elongatis, 1-septatis, 25 × 4-5, nunc obclavatis, 3-septatis, 50-75 × 4-5. 7617

Hab. in foliis Rudbeckiæ trilobæ, Ames Jowa Amer. bor. (Doct. B. D. Halsted).

48. **Cercospora noveboracensis** E. et E. Journ. Myc. 1887, p. 14. — 7618
Hypophylla, effusa; maculis nullis; cæspitulis olivaceis; hyphis laxe fasciculatis, effusis, olivaceo-brunneis, supra plus minus undulatis et denticulatis, 1-5-septatis, 50 75 × 4; conidiis oblongo-cylindraceis, subolivaceis, 3-7-septatis, utrinque obtusis, 20-70 × 3-4.

Hab. in foliis Vernoniæ noveboracensis, Columbia, Mo. Amer. bor. (Galloway).

49. **Cercospora pachypus** Ell. et Kell. Journ. Myc. 1887, p. 104. — 7619
Amphigena; maculis epiphyllis, indefinitis, flavidis, demum atro-brunneis; cæspitulis minutis, circ. 35 μ. cr.; hyphis 20-30 × 6-8 v. primo basi 8-10 μ. cr., supra torulosis et dentatis, olivaceo-brunneis, continuis, 12-15 in quoque cæspitulo; conidiis oblongis v. subcylindraceis, utrinque obtusis, 1-septatis, olivaceis, 25-70 × 5-7, majoribus supra angustatis.

Hab. in foliis Helianthi lenticularis, Manhattan, Kansas Amer. bor. (Swingle).

50. **Cercospora Helianthi** E. et E. Journ. Myc. 1887, p. 20. — Ma- 7620
culis nullis; hyphis hypophyllis, fasciculatis, olivaceo-brunneis, guttulatis, dein septatis, supra hamatis, 70-90 × 5-6, cæspitulos laxos, olivaceos, indefinite limitatos efficientibus; conidiis obclavatis, olivaceis, guttulatis, dein 3-6-septatis, 70-110 × 5-6.

Hab. in foliis Helianthi, Columbia, Mo. Amer. bor. (Prof. S. M. Tracy).

51. **Cercospora anomala** Ell. et Halsted Journ. Mycol. 1888, p. 8. 7621
— Hyphis hypophyllis, fertilibus erectis, 30-50 × 4-5, pallide olivaceis, e mycelio prostrato ex hyalino olivaceo, ramoso, septato oriundis; conidiis oblongo-cylindraceis, fumoso-hyalinis, 20-40 × 4-5.

Hab. in foliis vivis Actinomeris squarrosæ, Ames Jowa Amer. bor. (Halsted). — Format strata olivacea dein nigricantia et ad *Cladosporium* nutat.

52. **Cercospora Silphii** E. et E. Journ. Mycol. 1888, p. 3. — Macu- 7622
lis amphigenis, sed magis hypophyllis, angulosis, 2-3 mm. diam., albidis, elevatulo-marginatis; hyphis cæspitosis e tuberculo oriundis, pallide brunneis, continuis, sæpe torulosis sursum flexis denticulatisque 25-35 × 4; conidiis angustis subhyalinis, nucleolatis, dein 4-6-septatis, 70-80 × 3.

Hab. in foliis dejectis Silphii integrifolii, Manhattan Kans. Amer. bor. (W. T. Swingle).

53. **Cercospora macroguttata** Atk. Cerc. Alab. p. 32. — Hypophyl- 7623
la; cæspitulis parvis, ovatis vel majoribus anguste oblongis oliva-

ceo-brunneis; hyphis longis, flexuosis, geniculatis, prope apicem parce dentatis, multiseptatis et ample multiguttulatis, dein atro-brunneis, olivaceo-tinctis, junioribus viridi-olivaceis, 100-250 × 5-6; conidiis subcylindraceis, anguste tereti-fusoideis, dilute olivaceo-viridibus, 3-8-septatis, 10-80 × 4,5-5.

Hab. in foliis Chrysopsidis graminifoliæ, Auburn, Alabama Amer. bor. (Atkinson).

54. **Cercospora Mikaniæ** Ell. et Ev. Proc. Acad. Phil. 1891, p. 90. — 7624
Hyphis septatis, brunneis, subæqualibus, fasciculatis, subcurvis, sursum sparse denticulatis, cæspitulis effusis, strata indefinita olivaceo-brunnea plus minus confluentia formantibus, sed folium non decolorantibus; conidiis oblongo-clavatis, 3-6-septatis, olivaceis, 40-85 × 5-6.

Hab. in foliis Mikaniæ scandentis, Mississipi Amer. bor. (Tracy).

55. **Cercospora Senecionis** Ell. et Ev. Proc. Acad. Phil. 1891, p. 90. 7625
— Maculis amphigenis, suborbicularibus, 1-3 mm. diam., subconfluentibus, ferrugineo-brunneis, zona atro-purpurea cinctis, dein griseo-albis; hyphis fasciculatis, sparsis, erectis, brunneis, 3-4-septatis, subgeniculatis, 100-150 × 4-5; conidiis subcylindraceis, multiseptatis, non constrictis, 90-120 × 5-6.

Hab. in foliis Senecionis aurei, Wilmington, Del. Amer. bor. (A. Commons).

56. **Cercospora Erechtitis** Atk. Cerc. Alab. pag. 34. — Hyphis epi- 7626
phyllis, fasciculatis, rubenti-brunneis, geniculatis, sæpius cylindraceis, frequenter guttulatis, 50-240 × 4; conidiis hyalinis, septatis, guttulatis, 70-230 × 3-4.

Hab. in foliis Erechtitis hieraciifoliæ, Auburn, Alabama Amer. bor.

57. **Cercospora æquatorialis** Winter in Hedwigia 1886, pag. 103. — 7627
Cæspitulis hypophyllis, densissime stipatis, maculas submagnas, angulato-irregulares, atro-fuscas, cinereo-pruinosas, usque 7 mm. longas formantibus; hyphis fasciculatis, erectis, interdum subramosis, torulosis, fuscis, remote septatis, usque 100 μ. longis, interdum valde elongatis, 4,5-6 μ. crassis; conidiis filiformi-subclavatis, i. e. e basi parum crassiori sursum longe attenuatis, hyalinis, parce remoteque septatis, usque 70 μ. longis, $1^3/_4$ μ. crassis.

Hab. in foliis vivis Compositarum in insula S. Thomé Africæ occid.

58. **Cercospora elongata** Peck 33 Rep. St. Mus. p. 29, t. I, f. 21-23. 7628

— Maculis irregularibus, angulosis, interveniis, sæpe confluentibus, sæpe arescentibus brunneis, griseo-brunneis v. cinereis; hyphis amphigenis, cæspitulosis, coloratis, subflexuosis, sæpe nodulosis; conidiis elongatis, obscure 3-pluriseptatis, attenuatis, hyalinis, 50-150 ≃ 4-5.

Hab. in foliis vivis Dipsaci silvestris, New York Americæ borealis.

59. **Cercospora Heliotropii** E. et E. Journ. Mycol. 1888, pag. 5. — 7629
Amphigena; hyphis laxe fasciculatis, brevibus, 15-20 μ. long.; cæspitulis effusis, folium denique brunnescens reddentibus; conidiis oblongo-teretibus, 1-3-septatis, passim constrictis, 20-50 ≃ 4-6, ex olivaceo subhyalinis.

Hab. in foliis Heliotropii curassavici, Albuquerque, New Mexico Amer. bor. (Tracy).

60. **Cercospora Lycopi** E. et E. Journ. Myc. 1887, p. 15. — Macu- 7630
lis amphigenis, indefinitis, sordide brunneis 3-4 mm. diam.; hyphis hypophyllis in cæspitulos minutos congestis, brevibus 15-25 μ. long., pallide brunneis, continuis, supra subdentatis; conidiis obclavatis, flavido-hyalinis, multinucleatis, 50-75 ≃ 2,5-3.

Hab. in foliis vivis Lycopi rubelli, St. Gabriel La. Amer. bor. (Langlois).

61. **Cercospora Scutellariæ** E. et E. Journ. Myc. 1888, pag. 54. — 7631
Amphigena; maculis angulosis, folii venulis limitatis, 2-4 mm. lat., subtus brunneis, supra saturatioribus, folium subpurpureum et flavum reddentibus; cæspitulis parvis, compactis; hyphis continuis, brunneis, simplicibus, rectis, 30-40 ≃ 3; conidiis gracilibus, 70-90 ≃ 3, multiguttatis, indistincte multiseptatis.

Hab. in foliis Scutellariæ versicoloris, Concordia, Montana Amer. bor. (Rev. C. H. Demetrio).

62. **Cercospora Hyptidis** Speg. F. Puigg. n. 460. — Maculis subare- 7632
scentibus, irregulariter expansis, sæpe confluentibus, 5-20 mm. diam., sordide fusco-fulvescentibus, subdeterminatis; cæspitulis sæpius epiphyllis, in centro macularum laxe aggregatis, erectis, 140-150 × 20, rigidulis, ex hyphis continuis, teretibus, 5 μ. cr., pellucido-olivascentibus, apice noduloso-incrassatulis a liberis efformatis; conidiis acrogenis, vermiculari-clavulatis, 25-50 ≃ 4-5, utrinque obtusiusculis, rectiusculis, 10-12-pseudoseptatis, primo hyalinis, dein fumosis.

Hab. ad folia viva Hyptidis sp. in dumetis prope Apiahy Brasiliæ. — Species inter *Isariopsidem* et *Cercosporam* media.

63. **Cercospora Leonotidis** Cooke in Journ. Myc. 1887, p. 18. — Maculis amphigenis, pallidis, rotundis, subindefinitis, 2-3 mm. diam., subtus sæpe convexis; hyphis amphigenis, sæpius hypophyllis, brevissimis, 10-15 μ. long., e basi tuberculari oriundis, subintegris, olivaceis vel brunneis; conidiis subhyalinis, lineari-obclavatis, circ. 3-septatis, 35-45 ≃ 2,5-3,5. 7633

Hab. in foliis vivis Leonotidis nepetifoliæ, Point à la Hache, Louisiana Amer. bor. (Langlois).

64. **Cercospora Primulæ** Fautr. Rev. Myc. 1891, p. 13. — Amphigena; maculis griseis, flavido-cinctis, dein ferrugineis; hyphis 40-50 ≃ 3; conidiis cylindraceis, obtusis, rotundatis, 8-9-septatis, 60-105 ≃ 4. 7634

Hab. in foliis Primulæ elatioris, Noidan, Côte-d'Or Galliæ (F. Fautrey).

65. **Cercospora Lysimachiæ** Ell. et Halst. Journ. Myc. 1890, p. 34. — Maculis nullis; cæspitulis effusis, amphigenis pagina inferiorem magis, superiorem minus dense obtegentibus et fere rubefacientibus; hyphis subundulatis, subintegris, rubro-brunneis, continuis 40-50 ≃ 4; conidiis angustis, obclavatis, multinucleatis, demum septatis, rubiginoso-brunneis, 50-80 ≃ 3. 7635

Hab. in foliis Lysimachiæ strictæ, Jonesburgh N. J. Amer. bor. — Habitus quasi *C. Lythri*, sed satis diversa.

66. **Cercospora Lobeliæ** Kell. et Sw. Journ. Mycol. 1889, p. 75. — Maculis amphigenis, dilute griseolis vel pallide sordide flavidis, primo minutis, suborbicularibus, dein majoribus 3-8 mm. diam., ovatis vel suborbicularibus, sæpe angulosis, subinde irregularibus indefinite purpurascenti-cinctis; cæspitulis amphigenis, sparsis, e basi tuberculari oriundis; hyphis pallide fuligineis, supra pallidioribus, 50-135 ≃ 5-7 (basi), apice 2,5-5 μ. cr., supra subgeniculato-sinuatis, vix distincte multiseptatis, ad septa non constrictis; conidiis sparsis, hyalinis, curvis v. rarius rectis, basi truncatis, apice subacutis, fere obscure multiseptatis, non constrictis, 55-175 ≃ 3-4,5 (basi), apice 1-3 μ. diam. 7636

Hab. in foliis Lobeliæ syphiliticæ, St. George, Pottawatomie County, Kansas Amer. bor.

67. **Cercospora Mimuli** E. et E. Journ. Myc. 1887, p. 18. — Maculis amphigenis rotundis, albidis, 1-2 mm. diam., purpureo-marginatis; cæspitulis dense sparsis; hyphis amphigenis, brevibus, 15-25 μ. long, continuis, pallide brunneis, crassiusculis, 4-5 μ. cr., supra integris vel subdenticulatis, e basi minuta oriundis; conidiis hya- 7637

linis, parce septatis vel sæpius continuis et nucleatis, 40-60 × 2,5-3.

Hab. in foliis Mimuli atrati, Columbia, Montana Amer. bor. (Prof. S. M. Tracy).

68. **Cercospora verbenicola** E. et E. Journ. of Myc. 1887, p. 19. — Maculis amphigenis, rubiginosis, indefinitis, 2-3 mm. diam.; hyphis amphigenis, sed plerumque hypophyllis, fasciculatis, in quoque cæspitulo paucis, rugulosis, 40 × 4, subnodulosis, pallide brunneis, 1-2-septatis; conidiis hyalinis, nucleatis, 30-50 × 2,5-3, subcylindraceis, sursum leviter tenuatis. 7638

Hab. in foliis Verbenæ Xuthæ, Louisiana Amer. borealis (Langlois).

69. **Cercospora papillosa** Atk. Cerc. Alab. p. 20. — Maculis orbicularibus vel irregularibus, sordide albis, 2-5 mm. diam.; hyphis amphigenis, fasciculatis, subrectis, denticulato-papillatis, fuligineis, vix lateritio-tinctis, 50-70 × 4,5-5; conidiis hyalinis, longis, basi validiusculis, supra vulgo subabrupte filiformi-attenuatis, multiseptatis, interdum septis parum perspicuis, 80-200 × 4-4,5. 7639

Hab. in foliis Verbenæ, Auburn, Alabama Americæ borealis (Atkinson).

70. **Cercospora Lippiæ** E. et E. Journ. Myc. 1887, p. 20. — Maculis amphigenis, griseolis, rotundis, margine definito, elevato cinctis, 2-3 mm. diam.; hyphis amphigenis, e basi tuberculari fasciculatim oriundis, pallide brunneis, continuis, supra undulatis pallidioribusque, 35-50 × 3-4; conidiis gracilibus, obclavatis, subhyalinis, guttatis, 70-100 × 3. 7640

Hab. in foliis Lippiæ nodifloræ, Louisiana Americæ bor. (Langlois).

71. **Cercospora viridula** Ell. et Ever. Journ. Mycol. 1889, p. 70. — Maculis suborbiculis, $^1/_2$-$^3/_4$ cm., subindefinitis, supra sordide brunneis, subtus pallidioribus et virenti-brunneis; hyphis hypophyllis, 25-35 × 4, pallide brunneis, continuis, e basi vix tuberculari minute fasciculato-exsurgentibus, dense sparsis; conidiis subcylindraceis, supra angustatis, subhyalinis, 6-8-septatis, 70-80 × 4. 7641

Hab. in foliis Ipomœæ purpureæ, Concordia, Montana Amer. bor. (Rev. C. H. Demetrio).

72. **Cercospora alabamensis** Atk. Cerc. Alab. p. 19. — Maculis amphigenis, sordide albis, margine elevato, atro-purpureo vel nigro cinctis, 2-3 mm. lat.; cæspitulis laxis, numerosis; hyphis amphigenis, evanide septatis, dilute rubro-brunneis, subrectis, denticu- 7642

latis vel anguloso-flexuosis, 50-100 × 4,5; conidiis longis, gracilibus, rectis vel curvis, hyalinis, conferte multiseptatis, teretibus, 70-250 × 3-4.

Hab. in foliis Ipomœæ purpureæ, Uniontown, Alabama Amer. bor. (ATKINSON).

73. **Cercospora Ipomœæ** Wint. Hedw. 1887, p. 34. — Maculis densiuscule sparsis, passim confluentibus, suborbicularibus, sæpius angulatis, centro griseis margine lato nigrescente cinctis, 2-4 mm. diam.; cæspitulis amphigenis, minutissimis, sparsis, fuscidulis; hyphis fasciculatis, sursum subdenticulatis, remote septatis, fuscidulis 120-130 × 5; conidiis filiformi-subclavatis, sursum longissime tenuatis, multiseptatis, hyalinis, 160-175 × 3-4. 7643

Hab. ad folia viva Ipomœæ lacunosæ prope Peryville Mo Amer. bor. (DEMETRIO).

74. **Cercospora elongata** Sorok. Rev. Myc. 1890, p. 54, f. 256-258. — Cæspitulis atro-virentibus, circinanti-erumpentibus; hyphis fasciculatis brevibus sursum acutatis continuis; conidiis filiformi-obclavatis, curvis, primo continuis, dein septatis, deorsum guttulatis. 7644

Hab. in foliis Convolvuli sp., Kokan Asiæ centr.

75. **Cercospora Balansæ** Speg. Guar. I, p. 167. — Maculis hypophyllis, effusis, indeterminatis, olivascentibus, sæpe totum folium ambientibus; acervulis in maculis laxe sparsis, ex hyphis liberis rectis vel sæpe nodulosis vel geniculatis, 50-100 × 5, parce septatis, olivaceis compositis; conidiis cylindraceis, utrinque obtusissime rotundatis, 1-3-septatis, 20-35 × 5, dilute olivaceis. 7645

Hab. ad folia viva Evolvuli sp. cujusdam in silva Caá-guazù Brasiliæ.

76. **Cercospora verbascicola** Ell. et Ev. Journ. Myc. 1888, p. 3. — Maculis amphigenis, rotundis, sordide brunneis, albicantibus, 2-4 mm. diam.; hyphis gracilibus, cylindraceis, brunneis, septatis, supra fere integris, 75-175 × 3, cæspitulos sparsos efformantibus; conidiis subfiliformibus, hyalinis, remote septatis, 100-150 × 3, sæpius epiphyllis. 7646

Hab. in foliis vivis Verbasci Thapsi, Delamare Amer. bor. (COMMONS).

77. **Cercospora gentianicola** Ell. et Ev. Journ. Myc. 1888, p. 2. — Cæspitulis hypophyllis, minutis, effusis; hyphis brunneolis, simplicibus, brevibus, 15-20 μ. long., e basi parva, tuberculari exsurgentibus; conidiis subcylindraceis, supra subangustatis, hyalinis, guttatis, evanide 2-3-septatis, subcurvis, 40-60 × 3,5. 7647

Hab. in foliis evanescentibus Gentianæ crinitæ, Faulkland. Delaware Amer. bor. (A. Commons).

78. **Cercospora Gentianæ** Peck 41 Rep. p. 80. — Maculis suborbi- 7648
cularibus, brunneis vel rufo-brunneis, passim confluentibus; hyphis amphigenis, brevibus, subflexuosis, dilute coloratis, 15-30 μ. long., e tuberculo minuto atro oriundis; conidiis hyphâ angustioribus tereti-acicularibus, 1-3-septatis, 30-60 μ. longis.

Hab. in foliis vivis Gentianæ linearis, Number Four Adirondack Mount. Amer. bor.

79. **Cercospora Houstoniæ** Ell. et Ev. Proc. Acad. Phil. 1891, p. 89. 7649
— Epiphylla; cæspitulis e tuberculo minuto oriundis, sparsis; hyphis continuis, brunneis, 20-30 × 3-4, parce denticulatis, subundulatis; conidiis subhyalinis, anguste fusoideis, 30-40 × 3, granuloso-nucleolatis, demum 1-3-septatis.

Hab. in foliis inferioribus Houstoniæ cœruleæ, Wilmington Del. Amer. bor. (Commons).

80. **Cercospora Sabbatiæ** Ell. et Ev. Journ. Myc. 1888, p. 3. — Am- 7650
phigena; maculis definitis nullis; cæspitulis sparsis, minutis, griseolis; hyphis cæspitosis, continuis, fumoso-brunneis, 35-45 × 5, basi tuberculari, parva insidentibus; conidiis obclavatis, subhyalinis, 3-6-septatis, 65-80 × 4.

Hab. in foliis Sabbatiæ angularis, Faulkland Delaware Amer. bor.

81. **Cercospora Cucurbitæ** Ell. et Ev. Journ. Myc. 1888, pag. 3. — 7651
Maculis amphigenis, rotundis, subochraceis, mox tenuibus, albis, pellucidis, 1-4 mm. diam., margine subelevato cinctis; hyphis epiphyllis, cæspitulosis, olivaceo-brunneis, superne pallidioribus, 70-80 × 4, continuis, supra subgeniculatis, apice obtusis; conidiis lineari-clavatis, 100-120 × 3-4, hyalinis, primo granulosis et guttatis, demum septatis (multiseptatis?).

Hab. in foliis Cucurbitæ perennis, Manhattan, Kansas Amer. bor. (W. T. Swingle).

82. **Cercospora cucurbitina** Speg. Guar. I, p. 166. — Maculis am- 7652
phigenis minutis, 0,5-1,5 mm. diam. arescenti-albis, irregulariter orbicularibus, sæpe angulosis vel confluendo difformibus, eximie determinatis, non vel rarius zona fuscescenti parum perspicua cinctis; cæspitulis epiphyllis, rarius amphigenis, centro macularum insidentibus penicilliformibus, 150-180 × 40-50 fuscis, solitariis vel sparsis; hyphis inferne subcoalescentibus, apice liberis, simplicibus, erectis, densiuscule septulatis, gracilibus, 3-4 μ. cr., dilute oliva-

ceis, rectis, apice rotundatis v. 2-3-cicatricosis; conidiis cylindraceo-ellipticis, utrinque obtusiuscule rotundatis, 3-5-septatis, non constrictis, 30-40 ≃ 4, chlorinis.

Hab. ad folia viva Cyclantheræ? sp. in silva Caà-guazù Brasiliæ.

83. **Cercospora diffusa** E. et E. Journ. Myc. 1888, p. 3. — Maculis 7653
nullis; hyphis amphigenis, sed sæpius hypophyllis, simplicibus, brevibus, 30-40 ≃ 4-5, continuis, olivaceis, sæpius torulosis, obtusis, dense fasciculatis late effusis v. punctiformi-cæspitosis, folium dilute flavidum efficientibus; conidiis subteretibus, ad apicem tenuatis, 50-80 ≃ 4, passim usque 90-100, subolivaceis, demum 4-6-septatis.

Hab. in foliis Physaleos lanceolatæ, Manhattan, Kansas Amer. bor. (Swingle). — A *Cerc. Physalidis* satis diversa.

84. **Cercospora solanicola** Atk. Cerc. Alab. p. 21. — Maculis parvis 7654
albis, atro-marginatis v. indefinitis; hyphis fasciculatis, olivaceo-brunneis, vix rubido-tinctis, rectis v. flexuosis vel apicem versus geniculatis, 3-5-septatis, 40-120 ≃ 5; conidiis hyalinis, teretibus, obtusis, 10-30-septatis, 100-230 ≃ 4,5.

Hab. in foliis Solani tuberosi, Auburn, Alabama Amer. bor. (Atkinson).

85. **Cercospora atro-marginalis** Atk. Cerc. Alab. p. 27. — Maculis 7655
amphigenis, orbicularibus, 4-6 mm., dilute brunneis vel sordide griseis, supra atro-cinctis; hyphis hypophyllis, e stromate fasciculatim oriundis, brevibus, flexuosis v. denticulatis, continuis, dilutissime fuligineis, 10-30 ≃ 4-4,5; conidiis obclavatis v. cylindraceis, 1-10-septatis, guttulatis, flavidis, 40-70 ≃ 4-5.

Hab. in foliis Solani nigri (?), Auburn, Alabama Amer. bor. (Atkinson).

86. **Cercospora rigospora** Atk. Cerc. Alab. p. 33. — Maculis indefi- 7656
nitis vel nullis; hyphis hypophyllis, fasciculatis, divergentibus, in cæspitulos fuligineos, subinde parum distinctos gregariis v. in areas magnas effusis, subolivaceo-fuligineis, subflexuosis, denticulatis vel torulosis, longioribus evanide septatis et multiguttatis, 50-60 ≃ 3,5-4; conidiis rectis v. curvis, subcylindraceis, utrinque abrupte attenuatis v. teretibus, 3-10-septatis, multiguttulatis, dilute flavo-olivaceis, 50-70 ≃ 3-4.

Hab. in foliis Solani nigri (?), Auburn, Alabama Amer. bor. (Atkinson).

87. **Cercospora Asclepiadoræ** E. et K. Journ. Myc. 1888, pag. 6. — 7657

Amphigena; cæspitulis indefinite limitatis vel folii venulis partim limitatis, dense confertis, subnigris; hyphis simplicibus, atro-brunneis, brevibus, 15-25 μ. long.; conidiis sublanceolatis, brunneis, multiseptatis, 70-80 ≃ 4-5.

Hab. in foliis dejectis Asclepiadoræ sessilis, Kansas Am. bor. (Kellerman et Swingle).

88. **Cercospora Serpentariæ** E. et E. Journ. Myc. 1887, pag. 13. — 7658
Maculis amphigenis, griseis, 1-1,5 mm. diam., margine angusto atro cinctis zonisque fuscis ipsisque atro-marginatis circumdatis, totis 3-4 mm. diam.; hyphis solito hypophyllis, cæspitulos sparsos fumosos formantibus, curvis, denticulatis, pallide brunneis, 50-75 ≃ 4-5; conidiis fusoideis, 1-3-septatis, 40-60 ≃ 4-5 vel subaciculatibus, elongatis, 75-80 μ. long., 3-5-septatis, fumoso vel flavido-hyalinis.

Hab. in foliis vivis Aristolochiæ Serpentariæ, Faulkland Del. Amer. bor. (Commons).

89. **Cercospora Oxybaphi** Ell. et Halsted Journ. Myc. 1888, p. 8. — 7659
Hyphis amphigenis, pallidis, brevibus, 25-30 ≃ 3, tortuosis, parce septatis, sæpe ex stomatibus oriundis et cæspitulos minutos atros cum basi tuberculari formantibus; conidiis filiformi obclavatis, 3-4-septatis, hyalinis, 30-50 ≃ 3.

Hab. in foliis vivis Oxybaphi nyctaginei, Jowa City Am. bor. (A. S. Hitchock). — Cæspituli hinc inde aggregati.

90. **Cercospora furfurella** Speg. F. Guar. II, n. 194. — Maculis nul- 7660
lis v. indeterminatis, vix pallescentibus; cæspitulis epiphyllis, densiuscule latissimeque aggregatis, vix perspicuis, plagulas ex albo cinerescentes, furfurellas, latiusculas, irregulares efficientibus; hyphis 5-20 in quoque cæspitulo, cylindraceis, rectis vel vix subarcuatis, continuis, apice obtuse acutatis ac 3-4-nodulosis, 40-60 ≃ 5, pallide olivaceis; conidiis obclavulatis, basi subtruncato-rotundatis, sursum longe attenuatis, 1-5-septulatis, non constrictis, 50-120 ≃ 4-5, rectis v. inæquilateralibus, hyalinis.

Hab. ad folia viva Boerhaaviæ discoloris in silvaticis pr. Guarapi Brasiliæ. — Species pulchella inter *Cercosporam* et *Cercosporellam* nutans.

91. **Cercospora anthelmintica** Atk. Cerc. Alab. pag. 17. — Maculis 7361
parvis, amphigenis, 1-3 mm. lat., albis, margine elevato, atro cinctis; hyphis epiphyllis, fasciculatis, effusis, subflexuosis, subnodosis, profuse dentatis, septatis, fuligineis, vix subinde tinctis, 30-100 ≃ 4-4,5; conidiis hyalinis, teretibus, 4-10-septatis, 25-100 × 4-4,5.

Hab. in foliis Chenopodii ambrosioidis var. anthelmintici, Auburn, Alabama Amer. bor. (DUGGAR).

92. **Cercospora Acnidæ** Ell. et Ev. Proc. Acad. Phil. 1891, p. 89. — Maculis amphigenis, suborbicularibus, 1-3 mm. diam., sordide albis, atro-marginatis; hyphis amphigenis, brunneolis, continuis sursum geniculatis denticulatisque, 35-50 × 3,5-4,5; conidiis obclavatis, hyalinis, 3-5-septatis, 60-75 × 3-3,5. 7662

Hab. in foliis Acnidæ cannabinæ, Wilmington Del. Americæ borealis.

93. **Cercospora Betæ** (Rabenh.) Frank Krankh. d. Pflanz. pag. 601, *Fusarium* Rab. Fung. Eur. n. 69. — Maculis pallidis, minutis, copiosis, purpureo-marginatis; cæspitulis atris, minutis; hyphis brevibus e stomatibus non exeuntibus, sed per epidermidem erumpentibus; conidiis longissimis, filiformibus v. obclavatis, pluriseptatis, hyalinis. 7663

Hab. in foliis Betæ Ciclæ in Germania. — Teste Frank loc. cit. a *C. beticola* satis differt.

94. **Cercospora Alternantheræ** Ell. et Langl. Journ. Myc. 1890, p. 36. — Maculis rotundis, 1-2 mm. diam., sordide brunneis, centro albidis, margine brunneo; hyphis continuis, olivaceis, sursum truncatis, e basi tuberculari, 25 μ. diam.; conidiis obclavatis, hyalinis, 1-3-septatis, 65-80 × 3. 7664

Hab. in foliis Alternantheræ achyranthæ, St. Martinsville La. Amer. bor. (LANGLOIS).

95. **Cercospora brachiata** E. et E. Journ. Mycol. 1888, p. 5. — Maculis amphigenis, atro-brunneis, centro demum albicantibus, subindefinite limitatis, 3-5 mm. diam.; hyphis amphigenis, e basi tuberculari minuta cæspitulosis, pallide brunneis, rectis, cylindraceis, tenuiter septatis, effusis, 100-200 × 3,5-4; conidiis tenuibus, multiseptulatis, hyalinis, usque 200 × 3-3,5. 7665

Hab. in foliis Amaranthi retroflexi, Faulkland Del. Amer. bor. (COMMONS).

96. **Cercospora Comandræ** Ell. et Dearness. Proc. Acad. Phil. 1891, p. 90. — Maculis minutis, 1-2 mm. diam., rotundis, rufo-brunneis, definitis; hyphis brevibus, 12-20 × 3-3,5, simplicibus, integris, rectis, obtusis ex basi tuberculosa cæspitulosis; conidiis tenuibus, obclavatis, 70-80 × 3-3,5, nucleatis forteque tenuiter septatis, subrectis. 7666

Hab. in foliis Comandræ umbellatæ, London Canada Am bor. (DEARNESS).

97. **Cercospora Rhei** Grog. in Roum. F. Gall. n. 2775 (absque dia- 7667
gnosi).

Hab. in foliis Rhei officinalis culti, Dreux Eure-et-Loir Galliæ (GALLET, FEUILLEAUBOIS).

98. **Cercospora pallida** (B. et C.) Cooke Grev. XVII, p. 21, *Cladosporium* B. et C. — Syll. IV, p. 361. — Teste Cooke loc. cit. est revera *Cercospora* nec *Cladosporium*

99. **Cercospora repens** E. et E. Journ. Myc. 1887, p. 14. — Maculis 7668
irregularibus, indefinitis, supra purpureo-brunneis, subtus pallide rubro-brunneis; hyphis hypophyllis, prostratis, late effusis, gracilibus, 2,5-3 μ. cr., ramosis, brunneis; conidiis acrogenis, gracilibus, hyalinis, multiguttatis, 70-80 × 2,5-3.

Hab. in foliis vivis Brachylospermi («Trachyspermi?») difformis, St. Gabriel, Louisiana Amer. bor. (LANGLOIS).

II. *In Dicotyledoneis lignosis.*

100. **Cercospora Asiminæ** E. et K. Journ. Myc. 1887, p. 103. — Ma- 7669
culis sparsis, parvis, sæpius 1-3 mm. lat., sterilibus, supra subindefinitis et purpureo-brunneis, subtus griseolis v. murinis; hyphis fertilibus vix cæspitosis, brevibus, brunneis, 12-15 × 6-7, supra rotundatis vel interdum copiose ramosis; conidiis subolivaceis, latis, lanceolatis, 5-7-septatis, 60-80 × 6-7.

Hab. in foliis vivis Asiminæ trilobæ, Mound City, Kansas Amer. bor. (W. A. KELLERMAN).

101. **Cercospora Negundinis** Ell. et Ev. Proc. Acad. Phil. 1891, p. 89. 7670
— Maculis amphigenis, 0,2-0,5 cm., ferrugineo-brunneis, centro pallidioribus, subindefinitis, areolis minutis albis notatis; hyphis epiphyllis e basi tuberculari, cæspitosis, rectis, continuis, subhyalinis, sursum obtusis denticulatisque, 25-30 × 5-7; conidiis obclavatis, 2-4-septatis, hyalinis, 90-110 × 5-6.

Hab. in foliis Negundinis fraxinifolii, Lincoln Nebraska Amer. bor. (ROSCOE POUND). — Omnino diversa a *C. acerina*.

102. **Cercospora Vulpinæ** E. et K. Journ. Myc. 1887, p. 127. — Ma- 7671
culis amphigenis, 1-2 mm. lat., subangulosis, plerumque folii venulis limitatis, supra atro-brunneis, subtus subpallidioribus; hyphis sæpius hypophyllis, fasciculatis, pallide brunneis, subfuligineis, continuis vel leniter 1-3-septatis, supra distincte dentatis et abrupte incurvis, 50-70 × 3-4; conidiis obclavatis, fumoso-hyalinis, guttatis, demum 2-3-septatis, incurvis, 45-60 × 3-4.

Hab. in foliis vivis Vitis vulpinæ, Manhattan, Kansas Am. bor. (Kellerman et Swingle).

103. **Cercospora truncata** E. et E. Journ. Myc. 1887, p. 19. — Maculis amphigenis, sordide brunneis, supra saturatioribus, minutis, indefinitis, subconfluentibus; cæspitulis hypophyllis, strata subvelutina fumose olivacea demum grisea formantibus; hyphis fasciculatis e tuberculo minuto oriundis, cylindricis, simplicibus, subrectis apice obtusis, circulariter cicatricosis, 50-90 ≃ 4-5; conidiis anguste obclavatis, hyalinis, 3-6-septatis, sursum sensim cuspidato-tenuatis, 70-112 ≃ 4. 7672

Hab. in foliis vivis Vitis indivisæ, Louisiana Amer. bor. (Langlois). — Distinctissima a *C. viticola* et *C. canescenti* magis affinis.

104. **Cercospora infuscans** Ell. et Ev. Proc. Acad. Phil. 1891, p. 90. — Maculis brunneis, venulis folii limitatis, dein confluentibus et nigris, folium torquentibus demumque necantibus; hyphis hypophyllis, fasciculatis, erectis, leviter basi bulbosis, sursum subdenticulatis, septatis, atris, 70-85 ≃ 4; conidiis clavatis vel oblongo-clavatis, subolivaceis v. fumoso-fuscis, 30-60 ≃ 4-5, 3-septatis, passim constrictis. 7673

Hab. in foliis languidis Rhois venenatæ, Wilmington Del. Amer. bor. (Commons).

105. **Cercospora Bartholomæi** Ell. et Kell. Journ. Myc. 1889, p. 141. — Cæspitulis hypophyllis, inconspicuis, indeterminatis, fumosis, sparsis v. subconfluentibus; hyphis fasciculatis, rectis v. subundulatis, guttatis, continuis v. parce septatis, rubro-brunneis, 20-40 × 4-6, subinde fere e basi ramosis, apice integris v. subdentatis; conidiis subhyalinis ex oblongo graciliter obclavatis, 20-120 × 2,5-3, guttatis, brevioribus rectis, longioribus subcurvis. 7674

Hab. in foliis Rhois Toxicodendri, Rocks County, Kansas Amer. (E. Bartholomew).

106. **Cercospora Meliæ** E. et E. Journ. Myc. 1887, p. 16. — Maculis irregularibus, subconfluentibus vel sæpius gregariis, parvis, 2 mm. lat., sordide brunneolis v. albidis, supra saturatius marginatis, subtus indistinctis, indefinitis; cæspitulis amphigenis, in macularum centro confertis; hyphis subolivaceis v. fuligineo-hyalinis, e basi tuberculari oriundis, grossis, subrectis, supra fere truncatis et demum 3-5-septatis, 30-40 × 4-5; conidiis lineari-obclavatis, hyalinis, 80-120 × 4-5, multiseptatis. 7675

Hab. in foliis vivis Meliæ Azedarach, Louisiana Amer. bor. (Langlois).

107. **Cercospora leucosticta** E. et E. Journ. Myc. 1888, pag. 53. — Maculis minutis, 1-2 mm. diam. albis, sparsis; hyphis amphigenis, e basi tuberculari cæspitulosis, flavido-brunneis, continuis vel tenuiter 1-3-septatis, 40-50 × 4-5, sursum subundulatis et gibberosis, apice obtuse minute 2-3-denticulato; conidiis obclavatis, 5-10-septatis, 60-80 × 3,5-4,5, hyalinis. 7676

Hab. in foliis Meliæ Azedarach, St. Martinsville La. Amer. bor. (Langlois).

108. **Cercospora Erythrinæ** E. et E. Journ. Myc. 1887, pag. 18. — Maculis amphigenis, parvis, 1 mm. lat., albis, margine rubiginoso cinctis, subtus rubiginosis; hyphis epiphyllis, fasciculatis, e basi tuberculari oriundis, supra geniculatis et hamatis, 30-50 × 4-5; conidiis plerumque 35 × 2,5, guttulatis, flavido-hyalinis, sursum valde attenuatis, nonnullis brevioribus crassioribusque, 25-30 × 3 et 2-3-septatis. 7677

Hab. in foliis vivis Erythrinæ Cristæ-galli, Lafayette, Louisiana Amer. bor. (Langlois), sociâ *Phyllostictâ* sporulis oblongo-ellipsoideis v. ovato-ellipsoideis, 6-8 × 2,5-3 (*Ph. australis* Speg.?).

109. **Cercospora Kennedyæ** Cooke et Mass. Grev. XIX, pag. 90. — Epiphylla, maculis cinnamomeo-brunneis, irregularibus et confluentibus; cæspitulis sparsis, nigris, punctiformibus, *Venturiam* æmulantibus, erumpentibus; hyphis fasciculatis, simplicibus, flexuosis, subinde nodulosis, septatis, pallide olivaceis; conidiis cylindraceis, leviter sursum attenuatis, 3-septatis, e hyalino olivaceis, 40 × 3, hyphas subæquantibus. 7678

Hab. in foliis Kennedyæ prostratæ, Victoria Australiæ (Mrs. Martin).

110. **Cercospora pinnulicola** Atk. Cerc. Alab. p. 32. — Diffusa, hypophylla, foliorum pinnulis supra sæpius pallidis, subtus sordidis insidens; cæspitulis laxe sparsis; hyphis rubenti-brunneis, septatis, minute guttulatis, irregulariter flexuosis, geniculatis et profuse denticulatis, 100-200 × 4-5; conidiis obclavatis, hyalinis, multiseptatis et multiguttulatis, 50-150 × 4-5. 7679

Hab. in foliis Cassiæ nyctitantis, Auburn, Alabama Amer. bor. (Dugy).

111. **Cercospora Coronillæ** C. Mass. Contr. Myc. Ver. pag. 132. — Cæspitulis minutis, sparsis v. subvelutino-effusis; hyphis fertilibus 7680

molliusculis dense fasciculatis, erectis, tabacinis, multiseptatis, septis remotiusculis, subflexuosis et nonnihil subvaricosis, simplicibus vel subfurcatis, 100-170 × 6-8, apice subdenticulatis; conidiis subvermicularibus, rectis, 22-60 × 9-12, utrinque obtusis, deciduis, tabacinis.

Hab. in fructibus siccis Coronillæ Emeri, Tregnago prov. Verona.

112. **Cercospora Desmanthi** E. et K. Journ. Mycol. 1887, p. 14, *C. condensata* E. et K. var. *Desmanthi* E. et K. — Syll. IV, p. 462. — Testibus auctoribus loc. cit. ut distincta species habenda est.

113. **Cercospora Chamæcristæ** E. et K. Journ. Myc. 1888, p. 7. — 7681
Maculis nullis; cæspitulis hypophyllis, effusis; hyphis laxe fasciculatis, crassis, pallide brunneis, parce septatis, 50-70 × 5-6, supra abrupte incurvis et subnodulosis; conidiis subcylindraceis, fumoso-hyalinis, 1-3-septatis, subinde constrictis, 35-55 × 5-7.

Hab. in foliis et leguminibus Cassiæ Chamæcristæ, Manhattan, Kansas Amer. bor. (Kellerman et Swingle).

114. **Cercospora Tephrosiæ** Atk. Cerc. Alab. p. 12. — Maculis am- 7682
phigenis, parvis, angulosis vel suborbicularibus, 1-2 mm. diam., elevatis, nigro-brunneis; hyphis epiphyllis in cæspitulos confertos fasciculatis, rubentibus, flexuosis vel dentatis, 50-100 × 4,5-5; conidiis obclavatis, subhyalinis, dilute rubentibus, 5-8-septatis, sæpius rectis, 70-130 × 4-4,5.

Hab. in foliis Tephrosiæ hispidatæ, Auburn, Alabama Amer. bor. (Atkinson).

115. **Cercospora Clitoriæ** Atk. Cerc. Alab. p. 30. — Maculis angu- 7683
laribus, majusculis, 3-6 mm. lat., supra nigris vel subnigris, subtus brunneis; hyphis epiphyllis, fuligineis, brevibus, e stromate tuberculari parum prominulis, 5-10 μ. long.; conidiis longis, teretibus, vix coloratis, rectis, pluriseptatis, 50-70 × 3.

Hab. in foliis Clitoriæ marianæ, Auburn, Alabama (Atkinson).

116. **Cercospora latens** Ell. et Ev. Journ. Myc. 1888, p. 3. — Epi- 7684
phylla; maculis subindefinitis, atro-brunneis, subconfluentibus; hyphis valde obscuris, 10-15 × 3, continuis, subhyalinis, e basi tuberculari oriundis; conidiis gracilibus, obclavatis, granulosis, guttulatis, dein multiseptatis, 75-100 × 3.

Hab. in foliis Psoraleæ argophyllæ, Kansas Amer. bor. (W. T. Swingle).

117. **Cercospora Daviesiæ** Cooke et Mass. XVIII, p. 7. — Epiphyl- 7685

la; maculis fuscis, irregularibus, angulatis; hyphis fasciculatis, abbreviatis; conidiis cylindraceis v. sursum attenuatis, obtusis, curvulis, arcuatis, 5-septatis, pallide fuscis, 60 ≃ 4.

Hab. in foliis Daviesiæ latifoliæ, Victoria Australiæ (MARTIN).

118. **Cercospora destructiva** Ravenel Journ. Myc. 1887, pag. 13. — 7686
Maculis amphigenis, brunneis, demum griseis vel albidis, 3-4 mm. diam., margine elevato obscuriore, passim late confluentibus; hyphis amphigenis, sed superne uberioribus, erumpentibus, in cæspitulos sphæriæformes, fumoso-olivaceos, 160-200 μ. diam. conjunctis, simplicibus, subdentatis, parce septatis, 30-45 ≃ 3-4; conidiis oblongo-clavatis, 1-3-septatis, 20-40 ≃ 3.

Hab. in foliis languidis Evonymi japonicæ, Aiken Carol. Amer. bor.

119. **Cercospora Deutziæ** E. et E. Journ. Myc. 1888, p. 5. — Macu- 7687
lis amphigenis minutis, 1-2 mm. diam., supra albis elevato-marginatis, infra obscurioribus; hyphis in cæspitulos sparsos collectis, brunneis, septatis, plus minus curvis et subdenticulatis, 100 ≃ 3; conidiis angustis hyalinis, multiseptatis, sursum curvis, longissimis, 250-300 ≃ 3.

Hab. in foliis Deutziæ gracilis, Faulkland Del. Amer. bor. (COMMONS).

120. **Cercospora Aristoteliæ** Cooke Grev. XIX, p. 4. — Hypophyl- 7688
la; maculis brunneis, suborbicularibus, roseo-cinctis; hyphis fasciculatis, brevibus; conidiis cylindraceis, apice subattenuatis, 60-70 ≃ 3-4, multi-nucleatis spurieque septulatis, hyalinis.

Hab. in foliis Aristoteliæ racemosæ, New Zealand (COLENSO).

121. **Cercospora marginalis** Thüm. et Boll. Contr. Fung. litt. Austr. 7689
III, p. 5. — Cæspitulis hypophyllis, minutis, nigris, in foliorum margine, arescendo fusco-brunneo, fere regulari; hyphis brevibus, subrectis, ramulosis, septatis, griseo-fuscis; conidiis clavulatis, utrinque angustatis, apice rotundatis, tri- raro quadricellularibus, ad septa lenissime constrictulis, fuligineo-fuscidulis, 24 ≃ 7, pedicello brevi.

Hab. ad folia viva Ribis Grossulariæ, Goritiæ.

122. **Cercospora magellanica** Speg. F. Fueg. n. 451. — Maculis ru- 7690
fescentibus, parvulis, 1-3 mm. diam., epiphyllis, subdeterminatis, sparsis; cæspitulis in maculis laxe gregariis vel hinc inde sparsis, minutis, olivaceis; hyphis cylindraceis erectis e nodulo parenchymatico, minutissimo exsurgentibus, rectis vel flexuosulis, apice ob-

tusulis, 1-3-septatis, non constrictis, 40–50 × 6, pallide olivaceis; conidiis acrogenis, obovatis vel piriformibus, utrinque obtusiusculis, 15–20 × 5-7, pallide fuligineis, levibus, medio 1-septatis, non vel vix constrictis.

Hab. ad folia languida Ribis magellanicæ in Picton island Fuegiæ.

123. **Cercospora Mali** E. et E. Journ. Myc. 1888, p. 116. — Epiphylla; maculis griseis, rotundis, 2–3 mm., diam., rubenti-marginatis; hyphis brevibus, brunneis, continuis, sursum gibboso-denticulatis, 15–20 × 2,5–3, dense cæspitosis; conidiis angustis, flavido-hyalinis, 4-5-septatis, 60-70 × 2–2,5. 7691

Hab. in foliis vivis Piri Mali, St. Martinsville La. Amer. bor. (Langlois). — Diversa a *C. Piri.*

124. **Cercospora prunicola** E. et E. Journ. Myc. 1887, pag. 17. — Maculis amphigenis, subindefinitis, purpureo-brunneis, 2–3 mm. diam.; hyphis plerumque hypophyllis, brevibus, 10–15 μ. long., dilute coloratis, e tuberculo distincto oriundis; conidiis subhyalinis, nucleatis, dein 3-pluriseptatis, 30–45 × 2,5, cylindraceis. 7692

Hab. in foliis Pruni americanæ, Point à la Hache La. Amer. bor. (Langlois). — Conidiis minoribus et pallidioribus a *C. circumscissa* et *C. cerasella* distinguitur.

125. **Cercospora consobrina** E. et E. Journ. Myc. 1887, pag. 19. — Maculis amphigenis, minutis, 2 mm. diam., ferrugineo-brunneis, demum bene definitis, purpureo-cinctis; hyphis epiphyllis, brevibus, 12–20 × 2,5–3, sursum subhyalinis denticulatisque, e basi minuta tuberculari cæspitulosis; conidiis exilibus, hyalinis, cylindraceis, 30-40 × 2,5, demum tenuiter 3-pluriseptatis. 7693

Hab. in foliis vivis Persicæ vulgaris, Louisiana Am. bor. (Langlois).

126. **Cercospora rubro-tincta** E. et E. Journ. Myc. 1887, p. 20. — Maculis amphigenis, atro-rubris, margine dilutius rubro cinctis; cæspitulis laxis, olivaceis; hyphis amphigenis, brevibus, 12–15 μ. long., olivaceis, fasciculatis; conidiis lineari-subclavatis, guttatis, dilute fumosis, 35–50 × 2,5–3. 7694

Hab. in foliis Persicæ vulgaris, Point à la Hache, Louisiana Amer. bor. (Rev. A. B. Langlois).

127. **Cercospora myrticola** Speg. Guar. I, p. 167. — Maculis epiphyllis, majusculis, 3–5 mm. diam., fusco-atris, subindeterminatis, repando-angulosis, acervulis epiphyllis, laxe ac subseriate aggregatis, subhemisphæricis, 20–30 × 20-90, ex hyphis brevibus, conti- 7695

nuis? gracilibus, 2-2,5 μ. cr., rectis v. subcurvulis, basi coalescentibus, obscure ac subopace olivaceis, sursum liberis et fumosis compositis; conidiis cylindraceo-fusoideo-clavulatis, 20–75 ≃ 2-2,5, sæpius 3-septatis vel multiguttulatis, utrinque obtuse rotundatis, chlorinis.

Hab. ad folia viva Myrtaceæ cujusdam in silva Caá-guazú Brasiliæ.

128. **Cercospora epicoccoides** Cooke et Mass. Grev. XIX. p. 91. — Epiphylla; maculis minutis vel confluentibus, purpureis; cæspitulis gregariis sphæriæformibus, subcompactis, nigris, *Epicoccum* æmulantibus; hyphis brevissimis, simplicibus; conidiis profusis, fasciculatis, cylindraceis, sursum leviter tenuatis, 3-5-septatis, 50 ≃ 5, pallide olivaceis. 7696

Hab. in foliis Eucalypti, Victoria Australiæ (Mrs. Martin).

129. **Cercospora Eucalypti** Cooke et Mass. XVIII, p. 7. — Maculis subcircularibus v. confluentibus, pallidis, roseo-marginatis; hyphis abbreviatis; conidiis cylindricis, curvulis, utrinque obtusis, vix septatis, pallidis, 30–35 ≃ 4. 7697

Hab. in foliis evanescentibus Eucalypti, Oakleigh Australiæ (Martin).

130. **Cercospora erythrogena** Atk. Cerc. Alab. pag. 33. — Hypophylla; maculis indefinitis, folium sæpius in rubrum vergentibus; hyphis sparsis, frequenter repentibus, sæpe ramosis, fusco-rubro-brunneis, flexuosis, denticulatis, 50–70 ≃ 4-5; conidiis gracilibus, sæpius incurvis, majoribus teretibus, dilute olivaceo-brunneis multiseptatis, plerumque guttatis, 30–100 ≃ 3,5-4. 7698

Hab. in foliis Rhexiæ marianæ et virginicæ, Auburn, Alabama Amer. bor. (Atkinson).

131. **Cercospora truncatella** Atk. Cerc. Alab. p. 12. — Maculis amphigenis, suborbicularibus, albidis, margine angusto, dilute brunneo cinctis, 2–4 mm. lat.; hyphis amphigenis fasciculatis, rubro-brunneis, septatis, geniculatis vel subrectis, 70-250 ≃ 4,5; conidiis hyalinis, evanide septatis, e basi truncata apicem obtusum versus sensim attenuatis, raro basi rotundatis, 50-150 ≃ 3,5–4. 7699

Hab. in foliis Passifloræ incarnatæ, Auburn, Alabama Amer. bor. (Atkinson).

132. **Cercospora atro-maculans** E. et E. Journ. of Myc. 1887, p. 17. — Maculis amphigenis, nigris, subindefinitis, orbicularibus, 0,5-1 cm. diam., paucis, hyphis e tuberculo fasciculatis, amphigenis, brunneis, septatis, irregularibus, undulatis, sursum curvis denticu- 7700

latisque, 75 ≃ 4; conidiis obclavatis, subfuscis, granuloso-nucleatis, 40-75 × 3-4.

Hab. in foliis Araliæ spinosæ, Natchitoches La. Amer. bor. (Langlois).

133. **Cercospora coffeicola** B. et C. Journ. Myc. 1888, p. 5. — Maculis amphigenis 2-3 mm. diam., centro albo v. pallido, margine rufo-brunneo; hyphis sæpius epiphyllis, e basi minuta tuberculari cæspitosis, 50-75 × 4, bi-triseptatis, fuscis, passim elongatis, 100-300 μ. long., sursum nodulosis et denticulatis; conidiis (paucis observatis) hyalinis, 75 ≃ 3, bi-quadriseptatis. 7701

Hab. in foliis vivis Coffeæ arabicæ, Guatemala Amer. centr. (Scribner).

134. **Cercospora Diodiæ-virginianæ** Atk. Cerc. Alab. p. 26. — Maculis amphigenis, brunneis v. sordide albis, supra indefinite marginatis, 2-5 mm. lat.; hyphis amphigenis, fasciculatis, in cæspitulos numerosos fasciculatis, fuligineis, subrectis, denticulatis, 40-250 ≃ 4-5; conidiis hyalinis, basi validis, supra graciliter longeque attenuatis, multiseptatis, 80-350 ≃ 4. 7702

Hab. in foliis Diodiæ virginianæ, Auburn, Alabama Amer. bor. (Duggar).

135. **Cercospora Cinchonæ** E. et E. Journ. Mycol. 1887, p. 17. — Maculis amphigenis, definitis, supra nigricantibus, anguste elevatulo-marginatis, infra brunneo-nigris, 2-3 mm. diam.; hyphis epiphyllis in cæspitulos sparsos sphæriæformes junctis, brevissimis; conidiis cylindraceis flavido-hyalinis, subrectis, dein tenuiter 3-septatis, 25-35 ≃ 2,5. 7703

Hab. in foliis vivis Cinchonæ cultæ, Lafayatte La. Am. bor. (Langlois).

136. **Cercospora Cephalanthi** Ell. et Kell. — Syll. IV, p. 467 — Sec. Ell. in Journ. Myc. 1888, p. 5, conidia matura 35-50 × 4, olivaceo-brunnea, 5-7-septata. Nascitur quoque in Faulkland Amer. bor. (Commons).

137. **Cercospora Symphoricarpi** Ell. et Ever. Journ. Mycol. 1889, p. 70. — Maculis intense rubiginosis, 1-2 mm. diam.; hyphis hypophyllis, fasciculatis, 30-40 × 3, continuis, brunneolis, supra denticulatis; conidiis clavato-oblongis, 1-3-septatis, 20-30 × 3. 7704

Hab. in foliis Symphoricarpi vulgaris, Rooks County, Kansas Amer. bor. (E. Bartholomew).

138. **Cercospora catenospora** Atk. Cerc. Alab. p. 34. — Effusa vel cæspitulosa; hyphis e foliorum stomatibus fasciculatim assurgenti- 7705

bus, divergentibus, 20-75 × 5-6, septatis, subcylindraceis, sæpe dentatis, olivaceo-flavidis, raro obscurioribus ad rubrum vergentibus; conidiis acro-pleurogenis, concatenatis, cylindraceis, dein abrupte truncato-attenuatis vel solitariis et tunc teretibus, rarius subclavatis, dilute olivaceo-flavidis, sæpe guttulatis, 1–6-septatis, 20–100 × 4-5.

Hab. in foliis Sambuci canadensis, Auburn, Alabana Am. bor. (Atkinson).

139. **Cercospora lateritia** E. et Halst. Journ. myc. 1888, p. 7. — Maculis epiphyllis, brunneolis, dein plus minus confluentibus, demum fere nigris; cæspitulis hypophyllis, definitis, pallide lateritiis, mox confluentibus; hyphis e folii stomatibus cæspitose effuseque exsurgentibus, plus minus intertextis, 50-70 × 8-10, ramosis, septatis; conidiis sæpius cylindraceis et rectis, utrinque obtusis, 2-6-septatis, plerumque constrictis, rubro-brunneis, 50-100 × 6-8, longioribus supra attenuatis. 7706

Hab. in foliis vivis Sambuci pubentis, Ames Jowa Amer. bor. (B. D. Halsted).

140. **Cercospora Ceanothi** K. et Swingle Journ. Myc. 1888, p. 94. — Maculis rubro-brunneis v. rufis, subcircularibus, subconfluentibus, copiosis, amphigenis, 1-5 mm. diam.; hyphis pallide brunneis, continuis vel raro septatis, simplicibus, sæpe guttatis, supra subnodosis, hypophyllis, subinde amphigenis, dense fasciculatis, 20–36 × 3-4,5, cæspitulos minutos, in macularum centro gregarios efficientibus; conidiis curvis v. rectis, angustę cylindraceis v. utrinque leniter attenuatis et obtusis, 3-6-septatis, hyalinis, 45-90 × 2-4. 7707

Hab. in foliis Ceanothi ovati, Manhattan, Kansas Amer. bor., interdum socio *Macrosporio* quodam.

141. **Cercospora texensis** Ell. et Galloway Journ. Myc. 1888, p. 116. — Maculis amphigenis, minutis, 1-2 mm. diam., albidis, purpureo-marginatis; hyphis amphigenis, 5-20 laxe fasciculatis, effusis, brunneis continuis v. tenuiter 2–3-septatis, subæqualibus, subrectis, sursum denticulatis, subtruncatis, 35-50 × 4; conidiis obclavato-filiformibus, tenuiter septatis, 70-110 × 2,5. 7708

Hab. in foliis Fraxini viridis, Brazos Co. Texas Am. bor. (Le Brunk). — Subinde maculæ ampliores 0,5-1 cm. lat.

142. **Cercospora fraxinea** E. et E. Journ. Myc. 1888, p. 4. — Maculis amphigenis, subtus distinctioribus, indefinitis vel venulis folii limitatis, sæpius confluentibus, subolivaceis; cæspitulis amphigenis, punctiformibus, dense confertis; hyphis conferte cæspitosis ef- 7709

fusis, olivaceis, plus minus hamatis, 30-40 × 5-6, demum plus minus septatis; conidiis cylindraceis v. demum supra subattenuatis, 1-3-septatis, subolivaceis, plerumque 25-35 × 5-7, nonnullis 50 μ. long. et tunc sursum magis attenuatis.

Hab. in foliis siccis Fraxini, Manhattan, Kansas Amer. bor. (W. T. Swingle). — *C. fraxiniti* et *C. superfluæ* affinis.

143. **Cercospora fraxinites** E. et E. Journ. Myc. 1887, p. 20. — Maculis amphigenis, atro-brunneis, suborbicularibus et subindefinitis, 3-4 mm. lat., non copiosis; hyphis amphigenis, dense fasciculatis, brevibus, 15-30 × 2,5-3, brunneolis, hamatis, cæspitulos numerosos, parvos, nigros, dense sparsos efformantibus; conidiis subhyalinis, cylindraceis v. supra leniter attenuatis, guttulatis, 35-60 × 2,5-3. 7710

Hab. in foliis vivis Fraxini, Bohemia, Plaquemines Co., Louisiana Amer. bor. (Rev. A. B. Langlois).

144. **Cercospora bignoniæcola** Speg. Guar. I, p. 170. — Maculis amphigenis, irregularibus, sæpius confluentibus, griseo-arescentibus, determinatis, per ætatem frustulatim deciduis ac a folio eroso-perforato secedentibus; acervulis in margine macularum sparsis, minutis, subimperspicuis, olivaceis, ex hyphis cylindraceis, densiuscule septulatis, rectis, 80-160 × 7, apice non vel vix subincrassatulis, fuligineis compositis; conidiis fusoideo-clavulatis, 40 × 7 apice acutiuscule obtusatis postice cuneato-subtruncatis, 3-5-septatis, chlorinis vel olivaceis. 7711

Hab. ad folia viva Bignoniæ in silva subvirginea Caà-guazù Brasiliæ.

145. **Cercospora leprosa** Speg. Guar. I, p. 167. — Maculis nullis v. hypophyllis, pallescentibus effusis, indeterminatis; acervulis hinc inde glomerulatis, subvelutinis, olivaceis, ex hyphis liberis, basi tantum fasciculatis, erectis, rectis, flexuoso-geniculatis, ad genicula nodulosis, 1-3-septatis, 60-80 × 5-6, olivaceis compositis; conidiis elongato-subfusoideis clavulatis, superne acutis, inferne obtusato-subtruncatis, 40-75 × 3,5-5, rectis v. leniter subfalcatis, 3-5-septatis, nubilosis, ex hyalino fumosis. 7712

Hab. ad folia languida Tecomæ arboreæ cujusdam in silvis pr. Paraguarì et Peribebuy Brasiliæ.

146. **Cercospora Langloisii** Sacc. *Cercospora pallida* E. et E. Journ. Mycol. 1887, pag. 21, nec B. et C. — Maculis amphigenis, indefinitis, plus minus confluentibus, flavidis v. purpurascentibus, demum supra nigricantibus, infra brunneolis; hyphis fasciculatis, plerumque paucis in quoque fasciculo, brevibus, 15-20 × 3, pallide brun- 7713

neis, subnodulosis, e tuberculo minuto oriundis; conidiis subcylindricis, subhyalinis, granulosis vel nucleatis, demum 3-5-septatis, 30-55 × 2-2,5.

Hab. in foliis Tecomæ radicantis, Louisiana Amer. bor. (Langlois). — Diversa a *C. sordida*.

147. **Cercospora duplicata** Ell. et Ever. Journ. Mycol. 1889, p. 70. 7714
— Maculis primitus purpurascentibus, dein sordide atro-brunneis, irregularibus, 4-6 cm. lat.; hyphis epiphyllis brevissimis, 8-10 μ. long., e basi tuberculari, 30-35 μ. lat. assurgentibus; conidiis acrogenis lineari-lanceolatis, subhyalinis, evanide 3-6-septatis, 30-60 × 2,5-3.

Hab. in foliis Tecomæ radicantis, St. Martinsville, Louisiana Amer. bor. (Langlois). — « An a præcedente rite diversa? »

148. **Cercospora Viticis** E. et E. Journ. Myc. 1887, p. 18. — Macu- 7715
lis amphigenis, cinereis, supra brunneis, margine elevato, saturiore cinctis, subtus pallidioribus, minus definitis, irregularibus vel suborbicularibus, 2-4 mm. diam.; cæspitulis epiphyllis, minutis, sparsis, nigris; hyphis brevibus, 10-15 × 3, brunneolis, supra plus minus incurvis et irregularibus, e basi tuberculari oriundis; conidiis subcylindraceis, longioribus supra attenuatis, fumoso-hyalinis, 30-45 × 2,5, dein 3-septatis.

Hab. in foliis vivis Viticis Agni-casti, Lafayette, Louisiana Amer. bor. (Langlois). — Socia adest *Pyrenochæta minor*.

149. **Cercospora Kaki** E. et E. Journ. Mycol. 1887, p. 17. — Macu- 7716
lis amphigenis, irregularibus, 0,5-1 cm. diam., definitis, ferrugineo-brunneis, demum supra griseis centroque nigris, infra paullo dilutioribus et obsoletius limitatis; hyphis plerumque epiphyllis, subhyalinis, brevibus, 10-15 × 3, e basi tuberculari cæspitulosis; conidiis cylindraceis, 40-60 × 3-4, flavido-hyalinis, nucleatis (an tandem septatis?).

Hab. in foliis vivis Diospyri Kaki cultæ Lafayette La. Am. bor. (Langlois).

150. **Cercospora fuliginosa** E. et K. Journ. Myc. 1887, pag. 103. — 7717
Maculis amphigenis, 1-2 mm. lat., purpureo-nigris; hyphis hypophyllis, conferte fasciculato-cæspitosis, atro-olivaceis, 100-150 × 3, obscure septatis, supra undulatis abrupte incurvis et valde dentatis; conidiis obclavatis, 3-septatis, olivaceis, 35-40 × 4, subincurvis.

Hab. in foliis Diospyri virginianæ, Mound City, Kansas Amer. bor. (W. A. Kellerman).

151. **Cercospora atra** E. et E. Journ. Myc. 1888, p. 4. — Maculis 7718

amphigenis, nigris, subangulosis, 1-2 mm. diam.; cæspitulis minutis; hyphis hypophyllis, e basi tuberculari exsurgentibus, 40-75 × 3-4, continuis, atris, supra denticulatis et subgeniculatis; conidiis obclavatis, curvis, olivaceis, 2-3-septatis, 35-55 × 3.

Hab. in foliis vivis Diospyri virginianæ, Faulkland, Delaware Amer. bor. (A. Commons). — «An satis diversa a præcedente?»

152. **Cercospora Lycii** E. et Halst. Journ. Myc. 1888, p. 7. — Maculis amphigenis, flavido-brunneis, dein tenuibus, centro-albis, 2-4 mm. diam., disciformibus, margine elevato, definito cinctis; hyphis sæpius epiphyllis, flavido-brunneis, supra pallidioribus, septatis, 80-120 × 4, subrectis, supra plus minus denticulatis, cæspitulos rectos, e basi tuberculari exsurgentes efformantibus; conidiis gracilibus, 80-150 × 4, hyalinis, continuis v. vix 3-4- v. pluriseptatis. 7719

Hab. in foliis Lycii vulgaris, Ames Jowa Amer. bor. (B. D. Halsted).

153. **Cercospora Caricæ** Speg. Guar. I, p. 168. — Maculis amphigenis, pallescentibus, subdeterminatis, minutis, 0,5-1 mm. diam.; acervulis hypophyllis, maculas totas occupantibus, centro excepto, circinatim v. concentrice dispositis, dense aggregatis, globosis, 50-70 μ. diam., obscure e fuligineo olivaceis, ex hyphis basi in sporodochium hyalinum, minute parenchymaticum coalitis, superne ex toto liberis ac unilocularibus, articulo elliptico v. fusoideo-clavulato, 20-30 × 7-8, apice obtusato sæpeque subtruncato, ad angulos cicatricoso, pallide vinoso-chlorino donatis, compositis; conidiis ellipticis vel piriformibus, continuis, non vel 1-guttulatis vel medio 1-septatis, non constrictis, 10-20 × 7-10, episporio minute sæpe subimperspicue ruguloso-papilluloso donatis, pallide rubiginoso-olivaceis, in hyphis solitariis vel 2-3 acrogenis. 7720

Hab. ad folia viva Caricæ Papayæ pr. Guarapì Brasiliæ.

154. **Cercospora Vasconcelliæ** Speg. Guarg. I, 168. — Maculis nullis v. amphigenis, pallescentibus, parum manifestis, effusis, indeterminatis; acervulis hypophyllis, hinc inde densiuscule aggregatis, plagulas parvulas 0,5-5 mm. diam., sparsas v. confluentes, irregulares, olivaceas, velutinas efficientibus, ex hyphis cylindraceis, dense stipatis, sed non coalescentibus, breviusculis ac crassiusculis, 2-3-septatis, ad septa constrictis, 50-80 × 7-8, apice obtusissime rotundatis v. subtruncatis, articulis superis verruculoso-rugulosis, guttulatis, olivaceis compositis; conidiis fusoideis vel elliptico-clavulatis, 20-30 × 6-7, fere subpiriformibus, 3-4-septatis, loculo infero 7721

sæpius longiore angustioreque, ad septa non vel vix constrictis, guttulatis, olivaceis, loculis centralibus obscurioribus.

Hab. ad folia viva Caricæ (*Vasconcelliæ*) quercifoliæ in silvis pr. Guarapi Brasiliæ.

155. **Cercospora Jatrophæ** Atk. Cerc. Alab. p. 32. — Maculis indefinitis, primo supra flavidis et infra sordide flavis, dein sordide griseis, indefinite flavo-cinctis; hyphis fasciculatis, amphigenis, e stromate flavido-brunneo assurgentibus, dilute flavido-brunneis, brevibus, subflexuosis, 10-20 × 3; conidiis longis, tenuibus, hyalinis v. subhyalinis, 5-12-septatis, 50-100 × 1,5-2. 7722

Hab. in foliis Jatrophæ stimulosæ, Auburn, Alabama Am. bor. (Atkinson).

156. **Cercospora Stillingiæ** E. et E. Journ. Myc. 1887, p. 20. — Maculis amphigenis, suborbicularibus, atro-brunneis, margine atro, angusto cinctis, 2-4 mm. lat.; cæspitulis dense sparsis; hyphis amphigenis sed plerumque epiphyllis, brevissimis, 10-15 μ. long., coloratis, e basi distincte tuberculari oriundis; conidiis cylindraceis, subcurvis, guttis v. septis distinctis destitutis, 25-35 × 2,5-3. 7723

Hab. in foliis Stillingiæ sebiferæ, Point à la Hache, Louisiana Amer. bor.

157. **Cercospora Malloti** E. et E. in Journ. Myc. 1888, p. 114. — Maculis sordide albis, subangulosis, 1-4 mm. cr., deciduis; hyphis amphigenis, cæspitosis, 35 × 3-4, brunneolis, continuis, denticulatis, hamatis; conidiis gracilibus, 60-70 × 3, vix septatis, hyalinis. 7724

Hab. in foliis Malloti japonici, Starkville, Missouri Amer. bor. (Tracy).

158. **Cercospora Kalmiæ** Ell. et Ev. Proc. Acad. Phil. 1891, p. 88. — Maculis amphigenis orbicularibus atro-brunneis, 0,5 cm. diam. v. confluendo amplioribus, concentrice zonatis, anguste flavido-marginatis; cæspitulis epiphyllis sphæriæformibus, sparsis, atris; hyphis e basi tuberculari 100 μ. diam., dense fasciculatis, fumoso-hyalinis, undulatis continuis v. tenuiter septatis, 70-80 × 3,5-4, leniter denticulatis; conidiis obclavatis, hyalinis, 3-5-septatis, leviter curvis. 7725

Hab. in foliis vivis Kalmiæ latifoliæ, Newfield N. J. Amer. bor. — A *C. sparsa* omnino diversa.

159. **Cercospora guaranitica** Speg. Guar. I, p. 170. — Maculis minutis 0,5-1,5 mm. diam., amphigenis, intense et pulchre purpureis v. violaceis, hinc inde sparsis, indeterminatis, sæpius centro albo-arescentibus; acervulis hypophyllis, rarius amphigenis, paucis, oli- 7726

vaceis, ex hyphis cylindraceo-compressulis, ad quartum inferum subcoalescentibus denseque septulatis, cæterum liberis atque continuis, rectis v. vix flexuosis, 50-100 × 3-3,5, apice obtuse rotundatis chlorinis, compositis; conidiis cylindraceo-elongatis vel vix subclavulatis 50-80 × 4, utrinque obtusis continuis, pallidissime chlorinis.

Hab. ad folia viva Seguieræ guaraniticæ Speg. in dumetis pr. Caá-guazù Brasiliæ.

160. **Cercospora salicina** E. et E. Journ. of Myc. 1887, p. 19. — 7727
Maculis amphigenis, nigricantibus, irregularibus, plus v. minus confluentibus v. dense sparsis; hyphis in cæspitulos minutos amphigenos fasciculatis, e subhyalino brunneis, brevibus, 12-20 × 3, integris v. sursum sparse denticulatis v. passim ramulosis; conidiis obclavatis, nucleatis, ex hyalino subfuscis, 25-40 × 2-2,5,

Hab. in foliis (quæ atro-inquinata videntur), Salicis nigræ Louisiana Am. bor. (Langlois).

161. **Cercospora populina** E. et E. Journ. Myc. 1887, p. 20. — Ma- 7728
culis amphigenis, irregularibus, subconfluentibus, 2-5 mm. lat.; atro-brunneis, dein griseis vel albidis; hyphis dense fasciculatis, brevibus, 12-15 μ. lat., brunneolis, cæspitulos nigros, numerosos, dense sparsos formantibus; conidiis cylindraceis, subcurvis, supra vix attenuatis, hyalinis, dein vix 1-3-septatis, 25-40 × 2,5-3.

Hab. in foliis Populi albæ et P. angulatæ, Point à la Hache, La. Amer. bor. (Rev. A. B. Langlois). — *C. fraxiniti* valde affinis.

162. **Cercospora Halstedii** Ell. et Ev. Proc. Acad. Phil. 1891, p. 90. 7729
— Effusa, hypophylla, strata indefinita olivaceo-atra, 2-4 mm. diam., formans, sed folium non decolorans; hyphis erectis, brunneis, parce septatis, 100-150 × 5-7, undulatis vel crispis, sursum torulosis; conidiis obclavatis brunneis, 65-80 × 5-7, triseptatis, passim constrictis, parte septata conidium medium occupante.

Hab. in foliis vivis Caryæ tomentosæ, Cold Spring. N. Y. Amer. bor. (B. D. Halsted).

163. **Cercospora Juglandis** Kell. et Sw. Journ. Mycol. 1889, p. 77. 7730
— Maculis amphigenis, brunneis, ¼-1 mm. diam., folii venulis limitatis, sæpe in areas brunneas v. cinereas 0,5-2 cm. diam., confluentibus; cæspitulis prominentibus, numerosissimis, hyphis e stomatibus emergentibus dense gregariis, fuscidulis, simplicibus vel raro 1-2-septatis, vix attenuatis, sæpius abrupte angustatis, dein truncato-rotundatis, 20-65 × 3-6; conidiis copiosis, fuscidulis, sub-

clavatis vel cylindraceis, dein fere abrupte truncatis, continuis vel sæpius 1-3-septatis, constrictis, plerumque valide incurvatis, 33-72 ≃ 3-5.

Hab in foliis Juglandis nigræ, Manhattan, Kansas Americæ borealis.

164. **Cercospora Saururi** E. et E. Journ. Myc. 1887, p. 14. — Maculis amphigenis, subnigris, suborbicularibus v. irregularibus, non bene limitatis, folii portione flavida cinctis, $^1/_2$-$^3/_4$ cm. lat.; hyphis amphigenis, cæspitulosis, pallide brunneis, parce septatis, subundulatis, fere rectis, 35-50 × 4; conidiis hyalinis, 3-5-septatis, subcurvis, 50-75 ≃ 3. 7731

Hab. in foliis vivis Saururi cernui, Louisiana Amer. bor. (Langlois).

165. **Cercospora Penicillus** E. et E. Journ. Myc. 1888, p. 115. — Cæspitulis hypophyllis, compactis, distinctis, parvis, nigris, in maculis latericiis sparsis, penicillatis; hyphis atro-olivaceis, supra pallidioribus, multiseptatis, 150-200 ≃ 4-6, sursum plus minus curvatis; conidiis anguste obclavatis, hyalinis, guttulatis, dein 3-5-septatis, 50-75 ≃ 3,5-5. 7732

Hab. in foliis Myricæ ceriferæ, Newfield, N. Jersey Amer. bor., sociâ *Gnomoniâ Myricæ* Ell. et Ev., cuius forte statum conidicum sistit.

166. **Cercospora dispersa** E. et E. Journ. Myc. 1888, p. 115. — Hyphis effusis, solitariis v. 2-3-gregariis, olivaceo-brunneis, multiseptatis, circ. 150 × 4-5, subrectis, apice subdentatis, cæspitulos indefinitos, olivaceos, sparsos, hypophyllos efformantibus; conidiis supra gracilibus, fumoso-hyalinis, sæpius subcurvulis, 3-5-septatis. 80-110 ≃ 3,5. 7733

Hab. in foliis Myricæ ceriferæ, Newfield, New Jersey Amer. bor., sociâ *Cercosporâ Penicillo.*

167. **Cercospora platanicola** E. et E. Journ. Myc. 1887, p. 17. — Maculis amphigenis, minutis, 1-3 mm. diam., sparsis, irregularibus, indefinitis, sordide atro-brunneis; hyphis amphigenis, e basi tuberculari sphæriæformi atra minute fasciculatis, brevibus, subferrugineis, parce denticulatis; conidiis anguste obclavatis, plerumque curvis, nucleatis, 30-40 × 2-2,5. 7734

Hab. in foliis Platani occidentalis, Louisiana Amer. bor. (Langlois), sociâ *Phyllostictâ platanellâ* Sacc.; maculis ut *Cercosporæ* sed latioribus; sporulis 4-5 × 2,5 hyalinis.

168. **Cercospora tuberculans** E. et E. Journ. Mycol. 1888, p. 115. 7735

— Hyphis tubercula rotunda circ. 1 mm. diam., sec. nervos primarios in folii pagina inferiore disposita, mox diffusa, intus pallida dense tegentibus, brevibus, 25-35 × 4-5, continuis, erectis, olivaceis, simplicibus vel supra subdenticulatis; conidiis subolivaceis, fere cylindraceis, 1-5-septatis, 30-75 × 4-5.

Hab. in foliis Liquidambaris styracifluæ, Starkville, Miss. Amer. bor. (prof. S. M. TRACY).

169. **Cercospora Sequojæ** E. et E. Journ. Myc. 1887. — Cæspitulis 7736
compactis olivaceis, *Sphærellam* æmulantibus; hyphis ferrugineo-brunneis, abrupte curvis, subnodulosis et denticulatis, parce septatis, 50-70 × 4-5; conidiis oblongis, dein clavatis ferrugineo-brunneis, 40-70 × 4-6, 3-5-septatis constrictisque.

Hab. in foliis languidis Sequojæ giganteæ, Germantown Nurseries Penn. Amer. bor. (T. MEEHAN). — Var. **Juniperi** E. et E. loc. cit. Differt cæspitulis saturatius coloratis, minoribus, conidiis 15-30 × 3, hyphisque quoque brevioribus In foliis Juniperi virginianæ, Kenosha Co. Wis. (DAVIS).

III. *In Monocotyledoneis.*

170. **Cercospora palmicola** Speg. F. Guar. II, n. 195. — Maculis 7737
amphigenis, ellipticis, majusculis 1-2 cm. long. 3-8 mm. lat., determinatis, arescentibus, fusco-pallescentibus, undulatis, sæpe seriatim confluentibus; cæspitulis sæpius in centro macularum laxe aggregatis, minutis, penicillatis, olivaceis; hyphis 5-15-cæspitulosis, erectis, rectis v. flexuosulis, apice obtusis, 1-3-denticulato-nodulosis, continuis, 40-50 × 5-6, fumoso-olivaceis; conidiis sæpius acrogenis, obclavulatis, utrinque obtusiusculis, 5-7-pseudoseptatis vel 5-9-blastis, ad septa subconstrictulis, rectis, fumoso-olivaceis, 50-70 × 7-9.

Hab. ad folia languida Cocoes australis in silvis pr. Guarapì Brasiliæ.

171. **Cercospora richardiæcola** Atk. Cerc. Alab. p. 19. — Maculis 7738
amphigenis, nigris, centro minuto, albo, lineisque concentricis donatis, suborbicularibus, 2-6 mm. lat.; hyphis epiphyllis, fasciculatis, primitus dilute fuligineis et rubido-tinctis, dein rubro-brunneis, plerumque rectis v. etiam apice e flexuoso denticulatis, 30-80 × 5; conidiis hyalinis, obclavatis, 4-10- vel ultra septatis, 50-100 × 3-4.

Hab. in foliis Richardiæ africanæ, Auburn Alabama Am. bor. (ATKINSON).

172. **Cercospora Amaryllidis** Ell. et Ev. Journ. Myc. 1887, p. 14. — 7739

Maculis indistinctis v. nullis; cæspitulis sæpius epiphyllis, griseolis, subelongatis, indefinitis irregulariter sparsis; hyphis densiusculis, 50-70 ≃ 6-7, brunneis, parce septatis, supra subtruncatis et parce dentatis, subrectis; conidiis supra valde attenuatis et sæpe undulatis, hyalinis, 4-6-septatis, 60-80 × 4-5.

Hab. in foliis languidis Amaryllidis sp. cultæ, Louisiana Amer. bor. (Langlois).

173. **Cercospora Thaliæ** Ell. et Langl. Journ. Myc. 1890. p. 36. — Hyphis amphigenis brevissimis, ovatis, 6-8 × 5, olivaceis, plerumque 6-15 e stomatibus foliis fasciculatim prodeuntibus; conidiis cylindraceis olivaceis. 3-8-septatis, 50-100 × 6-8, utrinque obtuse rotundatis. 7740

Hab. in foliis vivis et emortuis Thaliæ dealbatæ, St. Martinsville La. Amer. bor. — Format strata elongata, 3-5 mm. long., 1,5-2 mm. lat., fere ardosiaca.

174. **Cercospora Majanthemi** Fuck. — Syll. IV, p. 477 — var. **Paridis** Bäuml. F. Schemn. I, p. 11. — Hyphis 40-50 ≃ 4; conidiis 30-36 ≃ 4-5. 7741

Hab. in foliis Paridis quadrifoliæ prope Schemnitz Hungariæ.

175. **Cercospora Pancratii** E. et E. Journ. of Myc. 1887, p. 15. — Maculis amphigenis, oblongis, 1-2 cm. long., 0,5-1 cm. lat., rubescentibus et plerumque anguste elevatulo-cinctis; cæspitulis amphigenis, sparsis, minutis; hyphis e basi sphæriæformi oriundis, brevibus, 12-15 ≃ 3, brunneis; conidiis angustis, subfuscis, sursum tenuatis, 40-50 × 3. 7742

Hab. in foliis Pancratii coronarii, Louisiana Amer. bor. (Langlois).

76. **Cercospora pachyspora** Ell. et Ev. Proc. Acad. Phil. 1891, p. 88. — Maculis amphigenis, latis, 1-2 cm., cinereis, sæpe elongatis vel marginalibus, anguste atro-purpureo-marginatis; hyphis dense cæspitosis, subhyalinis, continuis, undulatis, integris v. sparse denticulatis, 60-75 ≃ 4-5, plumbeis; conidiis oblongis, 3-septatis, 60-80 × 8-10. 7743

Hab. in foliis Alismatis Plantaginis et Peltandræ virginicæ, Wilmington Del. Amer. bor. (A. Commons).

77. **Cercospora nubilosa** E. et E. Journ. Myc. 1888, p. 115. — Maculis suborbicularibus, 1/4-1 cm. diam., fumoso-brunneis, definite limitatis; cæspitulis hypophyllis minutis, punctiformibus; hyphis brevibus, 15-25 × 2, brunneolis, e basi subtuberculari assurgenti- 7744

bus; conidiis cylindraceis, 2-6-septatis, subhyalinis, utrinque obtusis, 40-90 ≃ 3,5-5.

Hab. in foliis Smilacis, Cleveland, Ohio Amer. bor. (Tracy).

178. **Cercospora subsanguinea** E. et C. Journ. Myc. 1888, p. 4. — 7745
Maculis amphigenis, subellipticis, dilute ferrugineis, tenuibus, dein centro pallidioribus, 2-3 mm. diam., subdefinitis, sparsis vel subconfluentibus; cæspitulis hypophyllis, minutis, sparsis, pallide rubris; hyphis pallidis, rubentibus, 50-70 μ., vulgo minus quam 3 μ. cr., supra imperfecte ramosis; conidiis subcylindraceis, 20-30 ≃ 3-4, guttatis, utrinque sæpius obtusis.

Hab. in foliis Smilacinæ canadensis, Columbia britann. Amer. bor. (Prof. John Macoun). — *C. cruentæ* subaffinis.

179. **Cercospora crinospora** Atk. Cerc. Alab. p. 26. — Hyphis fasci- 7746
culatis, 3-6 in quoque cæspitulo, undulatis, apice parce dentatis et subhyalinis, ceterum atro-brunneis; conidiis gracilibus, rectis, teretibus, hyalinis, 4-6-septatis, 20-60 ≃ 1,5-2.

Hab. in folii partibus emortuis Rhynchosporæ glomeratæ, Auburn, Alabama Amer. bor. (Atkinson).

180. **Cercospora striæformis** Winter in Hedwigia 1886, pag. 103. — 7747
Cæspitulis dense stipatis, maculas lineares, fumosas, plerumque hypophyllas, usque 5 mm. longas formantibus, tenuissimis, fusciduli s; hyphis fasciculatis, erectis, parum torulosis, simplicibus, fuscis, pluriseptatis, usque 120 μ. longis, 4,5 μ. crassis; conidiis tenuissimis filiformibus, deorsum vix incrassatulis, apicem versus parum attenuatis, plerumque 3-5-septatis, hyalinis, sæpe subcurvatis, usque 45 × 1,5.

Hab. in foliis vivis Graminum in insula S. Thomé Africæ occident.

181. **Cercospora Setariæ** Atk. Cerc. Alab. p. 18. — Maculis amphi- 7748
genis, atris, indefinite pallideque marginatis, ellipsoideis; hyphis epiphyllis, atro-rubro-brunneis, fasciculatis, subinde densissimis, aliis divergentibus, interdum prope basim ramosis, parce minuteque guttulatis, prope apicem denticulatis, 50-100 × 4,5-5; conidiis hyalinis, 1-pluriseptatis, cylindraceis vel obclavatis, rectis vel curvis, 20-150 × 4-5.

Hab. in foliis Setariæ glaucæ, Auburn, Alabama Amer. bor. (Duggar).

182. **Cercospora fusimaculans** Atk. Cerc. Alab. pag. 18. — Maculis 7749
amphigenis, dilute brunneis, atro-brunneo-cinctis, late ellipticofusiformibus, 3-4 mm. long., sæpe confluentibus; hyphis epiphyl-

lis, fasciculatis, olivaceo-rubro-brunneis, rectis, subgeniculatis vel nodosis, apicem versum parce denticulatis, septatis, 50–100 ≃ 4-4,5; conidiis hyalinis, 3-4-septatis, utrinque subattenuatis, 25-40 × 2.

Hab. in foliis Panici dichotomi, Auburn, Alabama Amer. bor. (DUGGAR).

183. **Cercospora tessellata** Atk. Cerc. Alab. p. 27. — Maculis supra indefinitis, sæpius anguste oblongis, subtus cæruleo-nigris; cæspitulis transverse et longitudinaliter seriatis; hyphis hypophyllis, dense fasciculatis, fuligineis, brevibus, 10–12 ≃ 2,5–3, denticulatis; conidiis gracilibus, hyalinis, teretibus, curvis, septatis, 50-90 × 2–2,5. 7750

Hab. in foliis languidis Eleusines ægyptiacæ, Auburn, Alabama Amer. bor. (ATKINSON).

184. **Cercospora Sorghi** E. et E. Journ. Myc. 1887, p. 15. — Hyphis amphigenis in cæspitulos minutos in parte folii emortua circumcirca late atro-sanguinea sparsos paucis aggregatis, brunneis, sursum truncatis, lateraliter denticulatis, 60-80 ≃ 4, continuis v. parce septatis; conidiis angustis, 3–pluri-septulatis, 70-80 ≃ 3, hyalinis. 7751

Hab. in foliis Sorghi halepensis, Plaquemines Co. La. Amer. bor. (LANGLOIS). — Adest forma **Maydis**, ibidem, maculis brunneis nec purpureis diversa.

185. **Cercospora Köpkei** Krüg. Ber. Zuck. pag. 115, t. VI et VIII, f. 1-5. — Maculis amphigenis, sinuosis, confluentibus, purpureo-brunneis, infra pallidioribus, margine concolori; hyphis plerumque hypophyllis fasciculatis, septatis, apice nodulosis denticulatisque fumoso-brunneis, 40-50 ≃ 7; conidiis fusoideis, subrectis, 20-50 ≃ 5-8, medie 40 × 6, utrinque obtusiusculis, 3-4-septatis, non constrictis, passim guttulatis, subhyalinis. 7752

Hab. in foliis Sacchari officinarum, S. edulis, S. Glongong, S. spontanei in Java. — Morbum, javanice *Amak Krapak* dictum, sat gravem affert Saccharis in Java cultis.

186. **Cercospora seminalis** E. et E. Journ. Myc. 1888, p. 4. — Hyphis fertilibus, densis, pallide olivaceis, longissimis, ramosis, supra oblique truncatis, subtus septatis; conidiis acrogenis, subhyalinis, obclavatis, granulosis, dein 3-5-septatis, 80-110 ≃ 6-7. 7753

Hab. in spiculis Buchloës dactyloidis, Manhattan Kansas Amer. bor. (W. T. SWINGLE).

187. **Cercospora Agrostidis** Atk. Cerc. Alab. p. 12. — Maculis amphigenis, late ellipsoideis, centro pallidissime brunneis, margine lato, atro-rubro-brunneo cinctis, 3-5 mm. long.; cæspitulis irregulariter sparsis; hyphis amphigenis, læte rubro-brunneis, septatis, e sub- 7754

recto subflexuosis, apice parce dentatis, 40-65 × 3,5-4; conidiis hyalinis, 1-7-septatis, teretibus, rectis v. subcurvis, 10-60 × 2,5.

Hab. in foliis Agrostidis, Auburn, Alabama America bor. (Duggar et Newman).

188. **Cercospora cæspitosa** Ell. et Ev. Proc. Acad. Phil. 1891, p. 88. 7755
— Plerumque hypophylla; cæspitulis sparsis, atro-brunneis, 0,2-0,3 mm. diam., fere puccinioideis; hyphis dense cæspitosis, brunneis, 3-5-septatis, undulatis, supra geniculatis, 70-100 × 4; conidiis cylindraceo-fusoideis, leviter curvatis, hyalinis, 20-35 × 3-3,5.

Hab. in foliis vivis Eustachydis petreæ et Chloridis Swartzianæ, Ocean Springs Miss. Amer. bor. (S. M. Tracy).

189. **Cercospora seriata** Atk. Cerc. Alab. p. 27. — Maculis amphi- 7756
genis, cinereis, definite brunneo-marginatis atque indefinite flavo-cinctis, irregulariter oblongis, subinde confluentibus; hyphis epiphyllis, dilute rubro-brunneis, demum saturatioribus, flexuosis, dentatis, 20-50 × 4, in cæspitulos parallelos fasciculatis; conidiis hyalinis, subcylindraceis, rectis vel curvis evanide 2-6-septatis, 30-70 × 3-3,5.

Hab. in foliis Sporoboli asperi, Auburn, Alabama Amer. bor. (Duggar et Newman).

HETEROSPORIUM Kl. — Sacc. Syll. IV, p. 480.

1. **Heterosporium Goiranicum** C. Mass. Contr. Mic. Ver. p. 117. — 7757?
Cæspitulis suborbicularibus, glauco-subvirentibus, stromate parvo, celluloso insidentibus, epiphyllis vel amphigenis; hyphis fertilibus, olivaceo-cinerescentibus, erectis, dense fasciculatis, 1-2-septatis, 50-65 μ. long., simplicibus, apice nonnihil subincrassato-obtusis; conidiis acrogenis, raro subcatenulatis, elliptico-oblongis, longitudine varia, 5-7 μ. cr., plurimis continuis, aliis 1-3-septatis, superficie granulato-scabris.

Hab. in foliis marcescentibus Rosæ caninæ?, Precastio pr. Tregnago in agro veronensi.

2. **Heterosporium Laburni** Oud. Contr. Myc. Pays-bas XII, p. 33. — 7758
Maculis aridissimis, ex griseo fuscescentibus, linea e rubro fusca limitatis; cæspitulis amphigenis, griseis, densis, e basi stromatica, cellulosa oriundis, flexuosis, nodosis, circ. 100-240 × 4,5, dilute griseis, simplicibus, septatis; conidiis acrogenis, ovoideis, oblongis aut cylindraceo-oblongis, utrinque rotundatis, minoribus continuis, 4 × 2,5, majoribus, 2-4-septatis, paullulum continuis, asperulis, fuligi-

neis vel dilutissime fuscescentibus, 25 ≃ 10, nonnullis piriformibus, majoribus, imo maximis quibusdam muriformibus.

Hab. in foliis Cytisi Laburni, in horto zoologico La Haye Hollandiæ.

3. **Heterosporium Laricis** Cooke et Mass. Grev. XVI, p. 80. — Cæ- 7759
spitulis sparsis, suborbicularibus, lanuginosis, fuligineis; hyphis crassis, septatis, ad septa ventricosis, 15-18 μ. cr.; conidiis ellipsoideis, utrinque obtusis, 1-3-septatis, verruculosis, pallide fuligineis, 50-60 ≃ 20.

Hab. in foliis Laricis, Norfolk Britanniæ.

4. **Heterosporium hybridum** Ell. et Ever. Journ. Mycol. 1889, p. 70. 7760
— Subcuticulare, dein erumpens; cæspitulis griseo-olivaceis, oblongis, velutinis, 2-3 ≃ 1-2 mm. vel confluentibus, 1 cm. vel ultra diam.; hyphis erectis, simplicibns vel parce ramosis, septatis, 100 v. ultra μ. long., 5-7 μ. cr.; conidiis ellipsoideis vel oblongo-ellipsoideis, 1- v. rarius 2-septatis, minute hispidis, constrictis.

Hab. in caulibus emortuis Cleomes integrifoliæ, Helena, Montana Amer. bor. (Rev. T. D. Kelsey).

5. **Heterosporium Stenhammariæ** Rostr. Till. Groenl. Svamp. p. 630. 7761
— Hyphis cæspitosis, parce ramulosis, fuscis, septatis; conidiis pleurogenis, oblongatis, valde variabilibus, simplicibus vel ut plurimum 1-3-septatis, asperulis, 12-22 ≃ 7-9, flavo-brunneis.

Hab. in Stenhammariæ maritimæ, Kaersut Groenlandiæ (S. Hansen).

6. **Heterosporium Chloridis** Speg. F. Guar. nonn. n. 157. — Maculis 7762
nullis v. foliis hinc inde vix cinerescenti-pallescentibus; plagulis hypophyllis, plus minus evolutis, ellipsoideis v. orbicularibus, olivaceis, velutinis; acervulis minutis, in plagulas densiuscule constipatis; hyphis repentibus gracilibus, olivaceis, septulatis; hyphis fertilibus erectis, simplicibus, 150-200 ≃ 5-10, septulatis, olivaceis, pellucidis, apice obtusis; conidiis sæpius acrogenis et solitariis, ellipsoideis v. obovatis non v. vix inæquilateralibus, dein 3-septatis, non constrictis, 20-30 ≃ 8-10, utrinque obtusis, minutissime (vix perspicue) denseque asperulis, fumoso-olivaceis.

Hab. ad folia languida Chloridis sp. in pratis pr. Paraguari Brasiliæ.

7. **Heterosporium cercosporoides** Speg. F. Fueg. n. 449. — Maculis 7763
amphigenis, pallide cinerescentibus, indeterminatis, sparsis, parvulis; hyphis cæspitulosis, cylindraceis, rectis vel flexuosulis, apice obtusis, 1-3-septulatis, 50-80 ≃ 5-6, obscure fuligineis; conidiis acro-

genis, ellipticis, crassis, 1-2-septulatis, 20-25 × 8-10, non constrictis, crasse tunicatis, dense minuteque granuloso-asperulis, pallide roseo-fuligineis.

Hab. ad folia languida Agrostidis magellanicæ in Staten island Fuegiæ. — An satis ab *H. Phragmitis* (Op.) Sacc. distinctum?

8. **Heterosporium callospermum** Speg. Guar. I, p. 166. — Pannoso- 7764
effusum, irregulariter subpulverulentum, olivaceum; hyphis repentibus, dense intricato-ramosis, laxe remoteque septulatis, sursum suberectis, simplicibus v. brevissime 1-2-ramulosis vel nodulosogeniculatis, subinflatulis, 4 μ. cr., dilute olivaceis; conidiis e geniculis v. apicibus hypharum oriundis, elongato-ellipsoideis, rectis vel leniter inæquilateralibus, 30-60 × 12-13, utrinque obtusiuscule rotundatis, episporio levi, 3-5-locularibus v. guttulatis (septis parum vel non perspicuis), loculis v. guttulis 1-3 centralibus eximie cruciformibus, 2 extimis subconicis, dilute olivaceis.

Hab. ad spicas vivas Sporoboli sp. prope S. Barbara et Villarica Brasiliæ nec non in agro montevideensi et prov. Argentina.

9. **Heterosporium Allii** E. et M., Syll. IV, p. 480. — Var. **Sisyrin-** 7765
chii Speg. F. Fueg. n. 448. — Hyphis erectis cæspitulosis, parcissime septatis cylindraceis, sursum attenuatis, noduloso-geniculatis, apice cicatricosis, 50-100 × 5-6, intense fuligineis; conidiis acropleurogenis non vel subclavulatis, utrinque obtusiusculis, 1-3-septatis, 20-30 × 7, ad septa non vel vix constrictulis, rectis vel curvulis, minute denseque granuloso-asperulis, pallide roseo-fuligineis.

Hab. ad folia putrescentia Sisyrinchii sp. cujusdam in pratis pr. Wallamatu Fuegiæ.

10. **Heterosporium Colocasiæ** Massee Dis. of Coloc. p. 48, t. I, f. 2. 7766
— Cæspitulis olivaceis; hyphis fasciculatis, hinc inde furcatis, olivaceis; conidiis oblongis, 1-septatis, constrictis, granulatis, pallide olivaceis, 25-30 × 10-12.

Hab. in Colocasia, Jamaica Amer. centr. — «Multum habet *Trichocladii asperi*».

11. **Heterosporium minutulum** Cooke et Mass. Grev. XVI, p. 11. — 7767
Cæspitulis atro-olivaceis, velutinis, forma et magnitudine variis; hyphis subfasciculatis, brevibus, flexuosis, parce septatis, pallide olivaceis; conidiis 1-2-septatis, ellipsoideis, utrinque rotundatis, non constrictis, pallide olivaceis, rugosis, 16-20 × 6-8.

Hab. in foliis Chamæropis pumilis, Kew Britanniæ.

12. **Heterosporium maculatum** Klot. in Herb. Kew. et Grev. XVII, 7768
p. 65. — Cæspitulis minutis, gregariis; hyphis brevibus, septatis, flexuosis, brunneis, e mycelio radiante, concolori oriundis; conidiis ellipticis, utrinque rotundatis, 1-3-septatis, 25-28 = 12, episporio minute granuloso-asperatis.

Hab. in caulibus foliisque Monocotyledonum, verisimiliter Typhæ et Sparganii in Germania?

13. **Heterosporium Typharum** Cooke et Mass. Grev. XVI, p. 80. — 7769
Cæspitulis elongatis, erumpentibus, gregariis, fuligineis; hyphis erectis, vulgo simplicibus, septatis, nodulosis; conidiis 1-3-septatis, ellipsoideis, utrinque acutiusculis, minute granuloso-rugosis, pallide olivaceis, 30-40 = 10-14.

Hab. in foliis Typhæ angustifoliæ, Kew Britanniæ.

14. **Heterosporium epimyces** Cooke et Mass. Grev. XVI, p. 80. — 7770
Cæspitulis olivaceis, plus minus densis, velutinis; hyphis parce furcatis, sæpe simplicibus, flexuosis, sparse septatis, pallide fuscis; conidiis 1-3-septatis, ellipsoideis, minute verrucosis, pallide olivaceis, 25-30 = 3.

Hab. in Polyporo squamoso et Boleto felleo, Highgate et silva Dean Britanniæ.

15. **Heterosporium Algarum** Cooke et Mass. Grev. XVIII, pag. 74 et 7771
XVI. p. 80. — Cæspitulis atro-olivaceis, irregularibus, effusis; hyphis erectis, parce ramosis, basi olivaceis, supra pallidis attenuatisque; conidiis oblongis, cylindraceis, 1-3-septatis, leniter constrictis, pallide olivaceis, 30-35 = 10, demum echinulatis.

Hab. in frondibus Laminariæ flexicaulis, prope Hastings Britann. (E. M. Holmes).

NAPICLADIUM Thüm. em. Sacc. Syll. IV, p. 481.

1. **Napicladium pusillum** Cavara Dissecc. Grapp. p. 29. — Hyphis bre- 7772
vibus, molliusculis, fasciculatis, basi incrassatis, obscure 1-2-septatis, olivaceis, pellucidis, 15-30 = 5-5,5; conidiis acrogenis piriformibus, triseptatis, 20-29 = 8,4, concoloribus.

Hab. in baccis Vitis viniferæ, quam vexat, Stradella agri papiensis Ital. bor.

2. **Napicladium Astragali** Ell. et Ev. Journ. Myc. 1888, pag. 114. — 7773
Cæspitulis dense sparsis, subconfluentibus, atro-fuligineis, amphigenis; hyphis e basi subtuberculari, parenchymatica fascicullariter assurgentibus, 50-75 = 5-6, fumoso-brunneis, septatis, simplicibus,

subrectis; conidiis oblongo-cylindraceis, 1-4-septatis, fumosis, 15-40 × 11-13, utrinque obtusis.

Hab. in foliis Astragali Chamæleuces, Gray, Helena, Montana Amer. bor. (F. W. Anderson).

3. **Napicladium Myrtacearum** Speg. F. Guar. II, n. 192. — Maculis 7774
nullis; acervulis hypophyllis, orbicularibus, 2-3 mm. diam., tenuissime effuso-superficialibus, submembranaceis, velutinis, olivaceis; hyphis repentibus, dense intricato-ramulosis, gracilibus, 5-7 μ. cr., septulatis, olivaceis, hinc inde ramulos fertiles erectos, rectiusculos, rarius flexuosos, 5-10-septulatos, 200-250 × 4-6, non constrictos, pellucidos, concolores apice pallidiores ac noduloso-papillulatos, gerentibus; conidiis e papillis ramulorum fertilium apicalibus exsurgentibus, elongato-clavulatis, superne abruptiuscule rotundato-subtruncatis, inferne longiuscule attenuatis, 3- rarius 5-septatis, constrictis, 25-40 × 5-7, pallide olivaceis, loculis 2 (v. 4) internis obscurioribus.

Hab. ad folia viva Eugeniæ pungentis in silvis pr. Guarapi Brasiliæ.

4. **Napicladium anomalum** Speg. F. Puigg. n. 464. — Hyphis dense 7775
intertexto-ramulosis, repentibus, gracilibus, 5 μ. cr., plagulas crustaceas, orbiculares asteromatoideas, 3-5 mm. diam., tenuissimas, arcte matrici adnatas, fusco-olivaceas, sæpe confluentes, epiphyllas efficientibus, hyphopodiis destitutis, non torulosis, vix pellucidis; conidiis pleurogenis, e fusoideo clavulatis, 80-120 × 10, utrinque attenuatis, apice acutiusculis, base subtruncatis, leniter falcatis, e latere concavo tantum constrictis, pellucidis, fusco- vel fuligineo-olivaceis, levibus.

Hab. ad folia coriacea plantæ cujusdam ignotæ in silvis prope Apiahy Brasiliæ.

Trib. 4. Acrotheciæ Sacc.

SPONDYLOCLADIUM Martius — Sacc. Syll. IV, p. 483.

1. **Spondylocladium tenellum** Peck 32 Rep. p. 41. — Cæspitulis te- 7776
nuibus, effusis, subolivaceis; hyphis subcæspitosis, erectis, gracilibus, simplicibus vel raro ramosis, septatis, brunneis, 150-400 μ. long.; conidiis verticillatis, bi-quaternis, oblongis, continuis, pallidis, 11-14 × 4-5.

Hab. in caulibus emortuis Collinsoniæ canadensis, North Greenbush Amer. bor.

2. **Spondylocladium abietinum** (Zuk.) Sacc., *Cladosporium abietinum* Zukal Neue Ascom. p. 8, t. 1, fig. 8. — Mycelio repente, septato, brunneo; hyphis fertilibus erectis, simplicibus, 250-350 × 4-8, brunneis; conidiis obclavatis, concoloribus apicem versus attenuatis, dilutioribus, 3-4-septatis, guttulatis, basi rotundata insertis et secus hypham longe spicatis, pleurogenis, 38 × 9. 7777

Hab. in fragmentis tuberum Solani, Wien Austriæ. — «Etsi conidia breviora descripta, species fere absque dubio est *Sp. atro-virens* Harz».

ACROTHECIUM Preuss — Sacc. Syll. IV, p. 483.

1. **Acrothecium xylogenum** Grove in Journ. of Bot. 1886, p. 203, t. 267, f. 2. — Hyphis non maculicolis, erectis, strictis v. curvulis, æqualibus, infra fuscis, sursum pallidioribus, apice fere hyalinis, 120-250 μ. altis, coronam 6-8 conidiorum gerentibus; conidiis cylindricis, apice rotundatis, basi acutatis, 1-guttulatis, denique tenuiter 3-septatis, hyalinis, 14-17 × 3. 7778

Hab. in ligno putri, Barnt Green Reservoir Britanniæ. — *A. caulium* affine at conidiis semper hyalinis, 3-septatis distinctum. Septa maturitate tantum visibilia.

2. **Acrothecium nitidum** Karst. Symb. XX, p. 99. — Cæspitulis effusis, nigris; hyphis fertilibus, aggregatis, discretis v. sæpius e tuberculo communi fasciculatim oriundis, erectis, substrictis, rigidis, fragilissimis, articulatis, nigris, nitidis, apice ultimo ramulos 2-4, breves v. brevissimos, flexuosos, pallidiores gerentibus, 200-300 × 6-21; conidiis fusoideo-clavatis, rectis vel curvulis, 6-21- (sæpius 13-) septatis, nigris, nitidis, acrogenis, 60-105 × 11-12. 7779

Hab. in caulibus putridis Cirsii et Urticæ pr. Tammerforsiam et Mustiala Fenniæ. — Vergit ad *Dendryphium*.

Trib. 5. Dendryphieæ Sacc.

DENDRYPHIUM Wallr. — Sacc. Syll. IV, p. 487.

1. **Dendryphium cladosporioides** Ell. et Ev. Journ. Myc. 1888, p. 114. — Hyphis fertilibus erectis, brunneis, septatis, 200-250 × 6-7, supra plus minus ramosis, indumentum atro-olivaceum, tomentosum formantibus; conidiis pallide brunneis, continuis 1-2-septatis, oblongis, 3-4-catenulatis, 12-15 × 5, acrogenis. 7780

Hab. in caulibus emortuis Lycopersici, Louisiana in America boreali (Langlois).

2. **Dendryphium nubilosum** Ell. et Ev. Journ. Myc. 1888, p. 114. — 7781
Hyphis erectis, pallide fuligineis, subundulatis, plerumque simplicibus, 80-100 ≃ 6-7, indumentum atrum, tenue efformantibus; conidiis acrogenis, indistincte concatenatis, ex oblongo cylindraceo-oblongis, pallide fuligineis, sæpius subcurvulis, 2-5-septatis, 25-60 ≃ 10-12.

Hab. in foliis et caulibus vivis vel emortuis Astragali flexuosi, Sand Coulee, Montana Amer. bor. (Anderson).

3. **Dendryphium acinorum** Ell. et Ev. Journ. Myc. 1888, p. 114. — 7782
Atro-olivaceum, effusum; hyphis erectis simplicibus, septatis, olivaceis, 150-200 ≃ 4-5; conidiis acrogenis, solitariis vel 2-3-concatenatis, obclavatis, 5-7-septatis, fumoso-brunneis, 40-60 ≃ 6-7.

Hab. in acinis exsiccatis Vitis, Newfield, N. Jersey Amer. bor.

4. **Dendryphium nitidum** Karst. Rev. Myc. 1888. — Cæspitulis effu- 7783
sis, atris, nitidis; hyphis sterilibus, filiformibus, æqualibus, flexuosis v. substrictis, rigidis, atro-fuligineis impellucidisque (sub micr.), 200-300 ≃ 10-11, apice bi- raro trifidis, ramis brevissimis, articulatis; conidiis in apicibus ramorum acrogenis, subinde catenulatis, elongato-claviformibus, elongatis v. cylindraceis, rectis v. flexuosis, utrinque obtusis, 5-12-septatis, non constrictis, fuligineis semipellucidisque (sub micr.), articulis ultimis pallidioribus, 42-100 ≃ 10-12.

Hab. supra lignum Betulæ ad Mustiala Fenniæ.

5. **Dendryphium muricatum** Ell. et Ev. Proc. Acad. Phil. 1891, p. 92. 7784
— Effusum, nigrum; hyphis erectis, ramulis brevibus, alternatis v. suboppositis donatis; conidiis 4-8-concatenatis, muricato-rugosulis, 3-5-septatis, 30-40 ≃ 6-7.

Hab. in ligno dejecto Pruni virginianæ, Sand Coulee, Montana Amer. bor. (F. W. Anderson).

6. **Dendryphium quadriseptatum** Cooke Grev, XVII, p. 65. — Tenue 7785
effusum; hyphis fasciculatis, erectis, obscure septatis ad apicem ramulosis, ramulis plerumque oppositis; conidiis cylindraceis, quadriseptatis, non constrictis, atro-fuscis, 30-35 ≃ 8-9.

Hab. in ramis decorticatis Magnoliæ, New Jersey Amer. bor. (Ellis).

7. **Dendryphium bulbiferum** Zuk. Unters. p. 4, t. IV, f. 1. — Hyphis 7786
solitariis, fuscis, septatis, supra patule racemoso-ramosis; conidiis catenulatis, dein in massam pulveream solutis, ellipsoideis, brunneolis, episporio levi, 2 ≃ 1; bulbillis seu gemmis stipitatis, hyphæ primariæ insertis, globulosis, 20 μ. diam., pluricellularibus, cellula centrali majori.

Hab. in ramulis fagineis, Austria. — «Ob conidia minutissima, continua ad *Hormodendrum* potius accedit».

8. **Dendryphium crustaceum** Ell. et Ev. in Bess. et Welb. Rep. Rabr. 1889, p. 85. — Hyphis subramosis, septatis, nodosis, fuscis, 35-140 × 6-12; conidiis hyphâ saturatioribus, oblongis, 3-5-septatis, crasse tunicatis, 48-60 × 10-16. 7787

Hab. in ligno putri, Milford, Nebraska Amer. bor., socia *Sphæria (Hypoxylo?) incrustante.*

9. **Dendryphium subsessile** E. et E. Journ. Myc. 1887, pag. 128. — Stratum plus minus continuum, tenue, nigrum efformans; hyphis fere obsoletis; conidiis 2-4-concatenatis, subsessilibus, subcylindraceis, brunneis, circ. 5-septatis, 25-45 × 6-7. 7788

Hab. in caulibus emortuis Smilacis hispidæ, Manhattan, Kansas Amer. bor. (W. T. Swingle).

10. **Dendryphium pachysporum** Ell. et Ev. Proc. Acad. Phil. 1891, p. 92. — Hyphis subfasciculatis, circ. 200 μ. long.; dimidia parte infera septata, 6 μ. cr., supera moniliformi, ex articulis 10-15 × 6-7, olivaceis, continuis vel 1-septatis composita, ramulos 1-2, breves gerentibus; conidiis solitarie acrogenis, subopacis, 2-3-septatis, 25-40 × 15-20. 7789

Hab. parasitica in Peniophora sp. in ligno putri, St. Martinsville, Louisiana Amer. bor. (Langlois).

11. **Dendryphium macrosporum** Karst. Hedw. 1889. — Hyphis fertilibus cæspitosis, apice ramulis brevissimis, articulatis, paucissimis, obtusis, instructis, atris, usque ad 200 × 6-9; conidiis clavulatis utrinque rotundatis, usque ad 15-septatis, non constrictis, atris, fuligineis et semipellucidis (sub lente), usque ad 105 × 9-12 (concatenatis non visis). 7790

Hab. ad funem cannabinum vetustum pr. Mustiala Fenniæ. (O. Karsten). — E sect. *Brachycladii.*

BLODGETTIA Wright in Trans. Irish Acad. XXVIII, pag. 25 (1881) non sensu Harveyi 1858 (Etym. a cl. Blodgett). — Hyphæ in matrice intracellulares, initio subsimplices, dein subinde anostomosantes, rami priores tantum conidiophori; conidia oblongo-cylindracea, contricto-pluriseptata, breviter stipitellata, colorata. — «Vix *hyphomyces* videtur, sed potius forma *phycomycetoidea*».

1. **Blodgettia Borneti** Wright loc. cit. t. 2, f. 1-3 (non 4, quæ *Cladophoram* sistit). — Conidiis obscure brunneis vel rufescentibus, 7791

inæqualiter toruloideis, 2–5-septatis, hyphis longitrosum subparallelis.

Hab. intra articulos Cladophoræ cæspitosæ ad oras Americæ borealis et ad Antibes Galliæ (FARLOW, WRIGHT). — Habitus toruloideus, sed ob vitam intracellularem prædistincta species.

Sect. 4. Dictyosporæ SACC.

Subsect. 1. Micronemeæ SACC.

SPORODESMIUM Link — Sacc. Syll. IV, p. 497.

1. **Sporodesmium inquinans** E. et E. Journ. of Myc. 1886, p. 38. — 7792
Cæspitulis densis, purpureo-nigris, pulverulentis, iis *Torulæ herbarum* similibus; conidiis subglobosis, rufescentibus, opacis, 12-25 μ. diam., pedicellatis; pedicellis (hyphis) diametrum conidiorum æquantibus, mox evanidis.

Hab. in superficie inferiore asseris quercini, Plaquemines Amer. bor. (REV. A. B. LANGLOIS). — Affine *S. Lepraricæ*, sed magis pulverulentum et conidiis minoribus.

2. **Sporodesmium helicoides** E. et Ev. in Journ of Myc. 1886, p. 38. 7793
— Compactum, atrum, crustaceum; cæspitulis 2-3 cm. longis, circiter 1 cm. latis, e conidiis cylindraceis, obscure coloratis, multiseptatis, 40-60 ≃ 6-8, nonnullis rectis, sed plerumque incurvatis, *Helicomyceti* similibus, loculis, uno vel subinde pluribus septulo longitudinali divisis, efformatis.

Hab. in superficie inferiore asseris quercini, Plaquemines Amer. bor. (REV. A. B. LANGLOIS). — Affine *S. larvato*. A *S. helicosporo* distinctum.

3. **Sporodesmium tabacinum** Ell. et Ev. Proc. Acad. Phil. 1891, p. 92. 7794
— Effusum, stratum pulverulentum, tabacinum efformans; hyphis sterilibus inconspicuis; conidiis globosis v. oblongis, 25-35 μ. diam. v. 25-45 ≃ 20-30, loculis globosis, 6-7 μ. diam., sæpius breviter pedicellatis.

Hab. in ligno Populi tremuloidis, Sand Coulee, Montana Amer. bor. (ANDERSON).

4. **Sporodesmium sorosporioides** Ell. et And. Bot. Gaz. 1891, p. 85, 7795
t. X, f. 8-10. — Cæspitulis tenuibus, tabacinis, angustis, elongatis, sublinearibus, 2-5 cm. v. ultra long., regulariter effusis; conidiis 25-40 μ. diam., loculis laxe glomerulatis et 12-15 μ. diam.

Hab. in ligno putri, Montana Amer. bor. (ANDERSON).

5. **Sporodesmium toruloides** E. et E. in Fairman Contr. Myc. West. N. Y, p. 51, t. IV, f. 3. — Cæspitulis parvis, 1 mm. lat., gregariis, interdum subeffusis, pulviniformibus; conidiis variis sæpius torulosis, e loculis in catenas simplices vel ramosas dispositis, 12–25 × 5-7, sæpius longitudinaliter divisis vel etiam subglobosis, 5–7 μ. diam. 7796

Hab. in ligno emortuo et cortice Corni, Lyndonville Americæ borealis.

6. **Sporodesmium moriforme** Peck — Syll. IV, pag. 498 — ***S. corticolum** Karst. Symb. XX, p. 99. — Cæspitulis sparsis vel gregariis superficialibus, ut plurimum orbicularibus v. oblongatis, punctiformibus, atris; hyphis brevibus, teretibus, septatis aut continuis, subsphæroideis, hyalinis; conidiis sphæroideis v. ovoideis vel anguloso-ovoideis, septato-muriformibus, fuligineis, opacis, subimpellucidis (sub vitro) 33–42 × 24-30, v. diam. 11–30 μ. 7797

Hab. supra corticem vetustum Betulæ in Fennia.

7. **Sporodesmium funereum** E. et Langl. Journ. Myc. 1888, p. 124. — Effusum, pulvereum, tabacinum; conidiis globosis, 10-15 μ. diam., muricato-rugosis, septis 2 verticalibus sub angulo recto intersecantibus divisis, basi pedicello brevi, sæpe conico, hyalino præditis. 7798

Hab. in fragmentis ligneis cistæ ad tumulum, Pointe à la Hache Amer. bor. (Langlois).

8. **Sporodesmium fumosum** Ell. et Ev. Journ. Myc. 1888, p. 53. — Stratum tenue, atro-fumosum efformans; hyphis brunneis, ramosis, subtorulosis; conidiis 10–16 μ. diam. primo sæpe sarcinuliformibus seu 4-locularibus, septis 2 sub angulo recto inter se secantibus divisis. 7799

Hab. in ramis emortuis Quercus albæ, Newfield, N. Jersey Amer. bor.

9. **Sporodesmium? Alytosporii** Rich. Cat. Champ. Marn. n. 2041. — Conidiis brunneis, ellipsoideis vel triangularibus, muriformi-septatis. 7800

Hab. in ramis Rosæ caninæ, inter St. Amand et Lisse Galliæ, socia *Tapesia Rosæ.*

10. **Sporodesmium Macluræ** Thüm. M. U. n. 2074. — Acervulis hypophyllis, tenuissimis, laxe effusis, velutinis, olivaceis, maculas pullas gignentibus, sed folium vix leviter decolorantibus; conidiis longissime angustato-clavulatis, apice truncato-rotundatis, longe stipitatis, plerumque curvatis, 6-10-septatis, ad septa non v. vix constrictis, olivaceo-fuscis, grosse nucleatis, 24-36 × 6, pedicello æquilongo hyalino, subæquali. 7801

Hab. in foliis vivis Macluræ aurantiacæ, Aiken Carol. austr. Amer. bor. (RAVENEL). — *S. scirpicolo* affine.

11. **Sporodesmium dolichopus** Passer. in Thüm. Contr. Myc. Lus. 426 (sine diagnosi) et F. N. IV, p. 15. — Maculis amphigenis fuscis, irregularibus, angulosis, tandem confluentibus; conidiis clavatis, fuscidulis, 10-12-septatis non v. vix constrictis, 75 ≃ 12,5-15, loculis nonnullis septulo longitudinali divisis, pedicello hyalino inferne attenuato, æquilongo, fultis. 7802

Hab. in foliis languidis Solani tuberosi forte parasiticum in maculis Phytophthoræ infestantis, Parma Ital. bor.

12. **Sporodesmium hyalopus** Pat. Bull. Soc. Myc. 1888, p. 125. — Cæspitulis punctiformibus, nigris, aggregatis; conidiis ovoideis dein globosis, initio continuis, dein 1-septatis, demum multiseptatis, papillosis, brunneis, 8-16 μ. diam., pedicello brevissimo hyalino suffultis. 7803

Hab. in caulibus volubilibus (*liane*) inter palos sepiarios, Atures Venezuelæ.

13. **Sporodesmium macrosporoides** Ell. et Gall. Journ. Myc. 1889. p. 67. — Discoideum, orbiculare v. subelongatum, 1-3 mm. diam., dein nigrum; hyphis compactis, dein in massam subgrumosam mutatis; conidiis primo ovoideis v. subglobosis, subhyalinis, mox atris et 1-septatis v. sæpius sarcinuliformibus, h. e. subglobosis, 8-12 μ. diam., ob septa 2 sub angulo recto sese intersecantia 4-locularibus, demum transverse 3-4 et longitudinaliter 1-pluriseptatis, 30-40 ≃ 18-20, non pedicellatis. 7804

Hab. in caulibus Artemisiæ tridentatæ, Glendale, Montana Amer. bor. (F. W. ANDERSON).

14. **Sporodesmium mucosum** Sacc. Syll. IV, p. 506 — var. **pluriseptatum** Karst. et Har. Journ. Bot. 1890, p. 363. — Conidiis clavatis vel subcapitatis, apice rotundatis, 1-6-septatis, plus minus constrictis, loculo secundo, subinde quoque primo, septulo longitudinali diviso, dilute flavo-fuligineis, usque ad 50 ≃ 16. 7805

Hab. in epicarpio Cucurbitæ in Anglia (BERKELEY). — Conidia in typo, sec. Fuckel, 2-septata, apice truncata.

STIGMELLA Lev. — Sacc. Syll. IV, p. 507.

1. **Stigmella Celtidis** Passer. F. N. IV, p. 16. — Cæspitulis hypophyllis, nervo mediano insidentibus, solitariis v. aggregatis, globulosis, atris (nunquam hyalinis nec viridibus visis); conidiis e sporodochio celluloso oriundis, aggregatis, oblongis, cuneatis v. sub- 7806

globosis, bi-pluriseptatis, septo longitudinali divisis, stipite brevi, hyalino, fultis, 17-32 ≃ 10-17,5, atris.

Hab. in foliis dejectis Celtidis australis, Parma Ital. bor. — A *Stigmella Castagneana* Sacc. conidiis grandioribus non constrictis saltem differt.

2. **Stigmella pityophila** Cooke Grev. XVI, p. 71. — Epiphylla; cæspitulis punctiformibus, atris, sparsis, superficialibus; conidiis aggregatis, oblongis, biseptatis, subconstrictis, septulo longitudinali divisis, pallide olivaceis, 30 ≃ 12. 7807

Hab. in foliis Pini, Harpswell, Maine Amer. bor.

CONIOTHECIUM Corda — Sacc. Syll. IV, p. 508.

1. **Coniothecium velutinum** Speg. F. Guar. II, n. 196. — Pulvinulis tenuibus, effusis, sæpe totam matricem obtegentibus, aterrimis, subvelutinis; conidiis difformibus, globosis, trigonis, ovoideis, 1-30-cellulosis, ad confluentiam cellularum constrictis, sæpius hyphis minutis, cylindraceis, 5-15 ≃ 2-3, fuligineis primo suffultis, dein appendiculatis; cellulis conidiorum globosis v. e mutua pressione difformibus, minute papilluloso-asperulis, 6-8 μ. diam. subopace atro-fuligineis. 7808

Hab. ad palos dejectos cariosos in cultis pr. Guarapi Brasiliæ.

2. **Coniothecium antarcticum** Speg. F. Fueg. n. 442. — Acervulis minutis, subglobosis, 200-400 μ. diam., erumpenti-superficialibus densiuscule sparsis aterrimis, compactiusculis; conidiis polymorphis, 1-20-cellularibus; cellulis globosis, 3-5 μ. diam. v. e mutua pressione angulosis, sæpius grosse 1-guttulatis, crassiuscule tunicatis, dense papilloso-verrucosis, fusco-atris. 7809

Hab. ad truncos decorticatos et induratos Fagorum in Staten island Fuegiæ.

3. **Coniothecium anisosporum** Mont. Ann. Sc. nat. 1849, p. 57. — Acervulis hemisphæricis, vix $^1/_5$ mm. diam., sparsis, tandem confluentibus, atris; conidiis conglobatis et conglutinatis, globosis vel oblongis, angulosis, 15-25 μ. cr., fusco-atris, opacis, episporio papuloso. 7810

Hab. ad corticem arborum in insulis ad Capo Verde Senegambiæ (Webb).

5. **Coniothecium ampelophlœum** Sacc. *Coniothecium vilicolum* Passer. F. N. IV, pag. 16 (1888). — Acervulis minutis, punctiformibus, atris, crebre sparsis; conidiis forma et magnitudine variis, globulosis, oblongis, ellipticis, uni-pluriseptatis v. cruciatim partitis aut mu- 7811

riformibus, 5-7 μ. diam. vel 10-15 ≃ 5-8, fuligineis, loculis non guttulatis.

Hab. in cortice vetusto Vitis, Parma, Ital. bor.

5. **Coniothecium viticolum** Cooke et Mass. Grev. XVI, pag. 9 (Sept. 1887). — Cæspitulis erumpentibus, hemisphæricis, nigris, compactiusculis, laxe gregariis; conidiis rotundatis, subglobosis, varie agglutinatis, 2-4-locularibus, vulgo quaternatis, pallide olivaceis, 12-15 μ. diam. 7812

Hab. in foliis emortuis Vitis viniferæ, Kew Britanniæ. — *C. epidermidis* affine.

6. **Coniothecium globiferum** Corda Ic. I, p. 2. fig. 28. — Acervulis atris, erumpentibus, stromate conico, granuloso, pallido suffultis; conidiis muco luteolo in globulos irregulares conglobatis, subovoideis, fuscis, minutissimis. 7813

Hab. in ramulis emortuis Salicum in Bohemia.

7. **Coniothecium Ribis** Karst. Symb. XX, p. 108. — Cæspitulis sphæriiformibus, vulgo conoideis, valde compactis, suberumpentibus, minutis, nonnumquam effusis, superficialibus, olivaceo-atris v. subatris; conidiis sphæroideis, levibus, fuligineis et semipellucidis (sub micr.), 16-21 μ. diam., varie glomerulatis vel catenulatis. 7814

Hab. ad ramos aridos Ribis aurei, Mustiala Fenniæ.

8. **Coniothecium alneum** Karst. Symb. XX, p. 99. — Cæspitulis superficialibus, irregularibus, exiguis, atris, solito confertissimis, maculas irregulares efficientibus; conidiis varie glomerulatis v. catenulatis, sphæroideis v. late ellipsoideis, fuligineis (sub micr.), 9 ≃ 7 v. 5-6 μ. diam. 7815

Hab. in ramulis exsiccatis Alni glutinosæ, ad Mustiala Fenniæ.

9. **Coniothecium Sophoræ** Pass. in Erb. critt. it. II, n. 1179. — Effusum, atrum; conidiis variis, pluricellularibus, cellulis amplis, subclavatis v. sarcinæformibus, rarius di- tridymis, fuliginosis; conidiis aliis globosis v. oblongis hyalinis, intermixtis. 7816

Hab. in leguminibus adhuc dependentibus Sophoræ japonicæ, pr. Parmam Ital. bor.

10. **Coniothecium Cupulariæ** Passer. Diagn. F. N. V, n. 49. — Effusum, punctiforme vel confluens, atrum; conidiis subglobosis, pluricellularibus, fuligineis. 7817

Hab. in caulibus siccis Inulæ viscosæ, Vigheffio prov. Parma Ital. bor.

11. **Coniothecium caulicolum** Karst. Hedw. 1888, p. 105, Symb. XXII, 7818

p. 148. — Cæspitulis minutissimis, atris; conidiis sphæroideis vel subovoideo-sphæroideis, glomerulatis v. catenulatis, fuligineis, 6-9 μ. diam., diu conglutinatis.

Hab. in caulibus languidis Dianthi barbati, Mustiala Fenniæ.

12. **Coniothecium subglobosum** Cooke Grev. XIX, p. 4 et XVII, p. 65. 7819
— Epiphyllum, gregarium v. sparsum, punctiforme, nigrum; pustulis applanatis, planis, epidermide nigrificata tectis; conidiis subglobosis 8-10 μ. diam. obscure septatis, opacis, atro-brunneis, asperulis.

Hab. in foliis Monocotyledoneæ cujusdam in paludosis in ins. Oceanica Raritonga. — Idem videtur, etsi aliter descriptum, *Coniothecium subglobosum* Cooke Grev. XVII, p. 65: acervulis orbicularibus, applanatis, atris, circ. 1 mm. diam.; conidiis subglobosis v. ovatis, 1-3-septatis, sæpe cruciatis, fuscis 14 ≃ 10 v. 15 ≃ 8-9. In foliis Colocasiæ, Raritonga.

13. **Coniothecium lichenicolum** Linds. New lichenicol. Microfungi 7820
p. 518, t. XXIII, f. 22-28. — Punctiforme, verruciforme, atrum, superficie pulvereum; conidiis initio sphæroideis pallidis dein subcuboideis, cruciato-septatis, sarciniformibus, atro-brunneis 6-12 ≃ 6, articulis singulis 3-4 μ. diam.

Hab. in lichenibus plerumque sterilibus, saxicolis Lecanora, Isidio, Diplotommate etc. in Britannia etc.

14. **Coniothecium Pyramidula** Bomm. Rouss. Sacc. Contr. Myc. Belg. 7821
IV, p. 96. — Cæspitulis sparsis, fuligineis, punctiformibus, subinconspicuis; hyphis nullis; conidiis fuligineis, globulosis, 9. μ. diam. quaternatis, raro tri- v. quinatis, pyramidulam obversam in pedicellum brevissimum tenuatam formantibus.

Hab. in charta impressa, putri et excrementis murinis fœdata, Watermael Belgii.

DICTYOSPORIUM Corda — Sacc. Syll. IV, p. 513.

1. **Dictyosporium secalinum** Delacr. Bull. Soc. Myc. 1891, p. 109, 7822
t. VIII, f. 9. — Acervulis nigris, sparsis v. subconfluentibus et tunc crustam tenuem efficientibus; mycelio fusco, parco stromatice conglutinato; conidiis ovoideis, fusco-olivaceis, 50 ≃ 8-25, e catenulis 2-5 conidiorum haud secedentium formatis constitutis; articulis subcuboideis, 4,5-5 μ. diam., grosse 1-guttatis; pedicello dilutiore 6-8 ≃ 4-5.

Hab. in basi culmorum Secalis Cerealis putrescentium, Paris Galliæ.

SPEIRA Corda — Sacc. Syll. IV, p. 514.

1. **Speira Ulicis** Passer. Diagn. F. N. V, n. 50. — Punctiformis, atra; conidiis totis ovatis, 25-30 × 15-25, subsessilibus e catenulis 5-10-seriatis, 5-9-articulatis, laxiuscule conjunctis, fuscidulis formatis, articulis guttulatis 2,5-3 μ. diam. 7823

   Hab. in ramis siccis Ulicis europæi, Collecchio in agro parmensi Ital. bor.

2. **Speira inops** Bomm. Rouss. Sacc. Contr. Myc. Belg. IV, p. 96. — Cæspitulis punctiformibus, nigricantibus, leviter pulvinatis, superficie rugulosis; conidiis e catenulis binis, 15-18 ≃ 4, verticalibus, 3-4-articulatis formatis, fuligineis, totis 24-27 ≃ 10 (catenulis confertis) vel 24-30 ≃ 12-15 (catenulis relaxatis), basi subtriangulari in pedicellum hyalinum obsoletum abeunte. 7824

   Hab. in ligno putri Pini silvestris, Groenendael Belgii.

Subsect. 2. **Macronemeæ** Sacc.

STEMPHYLIUM Wallr. — Sacc. Syll. IV, p. 519.

1. **Stemphylium viticolum** Passer. Diagn. F. N. IV, n. 136. — Acervulis crebre sparsis, subglobosis, castaneo-fuscis; hyphis brevibus, intricatis, septulatis, subhyalinis; conidiis piriformibus, magnitudine variis, muriformibus, fumosis, pedicello hyalino, 25-45 × 15-20. 7825

   Hab. in ramúlis siccis Vitis viniferæ, Parma Ital. bor.

2. **Stemphylium insidens** Cooke et Mass. Grev. XIX, p. 49. — Effusum, atro-fuscum; hyphis tenuibus, effusis, ramosis; conidiis ad apicem ramulorum solitariis, ellipticis, triseptatis, ad septa constrictis, una alterave cellula longitudinaliter divisis, atro-fuscis 18-20 ≃ 8. 7826

   Hab. in foliis Pleurophylli speciosi, Campbell Island Americæ bor. (Kirk).

3. **Stemphylium paraguayense** Speg. Guar. I, p. 170. — Maculis nullis; cæspitulis laxe sparsis, punctiformibus, atro-olivaceis; hyphis chlorinis v. fumosis, sterilibus effusis, dense ramoso-intricatis, laxe septulatis, 2-3 μ. cr., fertilibus exsurgentibus, rectis, breviusculis, 1-5-septulatis, 20-50 ≃ 2-2,5; conidiis acrogenis, solitariis, e piriformi-trigono tubinato-globosis, horizontaliter septatis, loculo uno alterove longitudinaliter 1-2-septatis, 20-25 ≃ 18-20, olivaceis. 7827

Hab. ad folia viva arboris ignotæ in montuosis pr. Peribebuy Brasiliæ.

4. **Stemphylium opacum** Sacc. F. Abyss. p. 10, fig. 15. — Acervulis pulvinatis, exiguis, aterrimis, subinde confluentibus, pulvereis; conidiis sphæricis, 2–3-septato-muriformibus, raro radiatim septatis, ad septa constrictulis, 7-9 μ. diam., aterrimis (hinc septa ægre conspicienda) brevissime hyalino-pedicellatis, ex hyphis repentibus crebre septatis fuscellis, 2-3 μ. cr. subsimplicibus enatis. 7828

Hab. in caulibus crassioribus decorticatis dejectis, M. Dongolle pr. Ghinda Abyssiniæ (Penzig).

5. **Stemphylium asperosporum** Cooke et Massee Grev. XVI, p. 11. — Lanatum, murinum; cæspitulis irregularibus, confluentibus, subeffusis; hyphis repentibus septatis, ramosis, hyalinis, ramis fertilibus, ramosis, erectis, gracilibus, apice subramulosis, ramulis sursum compresse globoso-incrassatis; conidiis globosis e loculis 2-3-4 verrucosis, 12 μ, circ. diam. efformatis, fuligineo-brunneis. 7829

Hab. in charta, Upper Holloway, London Britanniæ. — Non-nullis notis ad *S. Alternariæ* accedit.

6. **Stemphylium** (Thyrococcum) **punctiforme** Sacc. — Sporodochiis subsuperficialibus, amphigenis, pulvinulatis, $^1/_8$-$^1/_5$ mm. diam., nigris; conidiis globoso-sarciniformibus, 1–2-septato-muriformibus vel radiato-septatis, ad septa constrictis, 10-15 μ. diam., luteo-olivaceis dein fuligineo-olivaceis; hyphis breviusculis, filiformibus, simplicibus v. furcatis, hyalinis, 2-3 μ. cr., subinde apice incrassatulis. 7830

Hab. in foliis languidis Atriplicis Halimi, Saintes Galliæ (Brunaud). — A typo generis differt hæc species conidiis hyphisque in sporodochium compactiusculum junctis, hinc in posterum sub genere proprio (*Thyrococcum*) aptius seponenda et inter Tuberculariaeas dematieas pr. *Spegazziniam* locanda. Habitus fere *Epicocci.*

MACROSPORIUM Fr. — Sacc. Syll. IV, p. 523.

I. *In Dicotyledoneis lignosis.*

1 **Macrosporium cæspitulosum** Rabh. Unio Itin. XXXII, Grev. XVII, p. 65. — Cæspitulis initio sparsis, demum confluentibus; hyphis erectis, rigidis, simplicibus; conidiis omnium maximis, oblongo-cylindricis vel clavatis, plus minus curvulis, 64-85 ≃ 15-17, multiseptatis, basi sæpius in caudam stipitiformem productis. 7831

Hab. in ramis Quercus, Tempio-Gallura Sardiniæ (Doct. Marcucci).

2. **Macrosporium Oleandri** Rabh. Unio Itin. XXIX et Grev. XVIII, p. 66. — Conidiis oblongis v. subclavatis, tetrablastis. 7832

Hab. in ramis Nerii Oleandri, Tortoli Sardiniæ (Doct. Marcucci).

3. **Macrosporium Ravenelii** Thüm. M. U. n. 2071. — Caules plus minus ambiens; cæspitulis confluentibus, effusis, atro-olivaceis, velutinis; hyphis continuis, subnodosis, brevi-articulatis, raro ramosis, 4 μ. cr., fuscis; conidiis clavatis, multiseptatis, ad septa constrictis, cellulis rotundis, vertice rotundatis, fuscis, 30-36 = 16-20, pedicello longo, 20-36 μ. long., parte super. incrassato. 7833

Hab. in ramulis subputridis Cassiæ occidentalis, Aiken in Carol. austr. Amer. bor. (H. W. Ravenel).

4. **Macrosporium puccinioides** Ell. et Anders. Bot. Gaz. 1891, p. 47, t. VII, f. 7-11. — Cæspitulis hysteriiformibus, angustis, 2-3 mm. long., per corticis rimas longitudinales erumpentibus; hyphis erectis, simplicibus, septatis, flavido-hyalinis, 60-70 = 5, dense compactis; conidiis primo 1-septatis, ellipsoideis v. ovoideis, 20-30 = 15-20, demum elongatis, oblongis v. oblongo-clavatis, 60-70 = 18-22, brunneis, 3-4-septato-muriformibus. 7834

Hab. in ramis emortuis Bigeloviæ, socià *Dothideâ Montaniensi*, Helena, Montana Amer. (Rev. F. D. Kelsey). — Habitus fere omnino *Pucciniæ*.

5. **Macrosporium Rubi** Ellis North Am. Fungi n. 544 (absque diagnosi). — Maculis epiphyllis numerosis, crebris, pallidis dein candidis, subcircularibus; cæspitulis punctiformibus, paucis, atris; hyphis fasciculatis, filiformibus, tortuosis, septatis, rufo-fuligineis, 50-60 = 4; conidiis elliptico-oblongis, utrinque rotundatis, 3-septatis, parce muriformibus, utrinque rotundatis, rufo-brunneis, 22-25 = 9. 7835

Hab. in foliis adhuc vivis Rubi hispidi, New Jersey Americæ borealis.

6. **Macrosporium Calycanthi** Cav. Mat. Lomb. p. 16, t. I, fig. 7. — Biogenum; maculis subcircularibus, mediocribus, albo-nitentibus, ochraceo-marginatis, cæspitulis paucis, epiphyllis, sparsis, brunneis; hyphis radiatim fasciculatis, e stomatibus egredientibus, olivaceis, 40-80 = 4-6; conidiis piriformibus, basi in pedicellum attenuatis, 3-5-septato-muriformibus, apice obtusis, olivaceis, pellucidis, 50-70 = 11-13. 7836

Hab. in foliis Calycanthi præcocis, in horto botanico, Pavia Italiæ.

7. **Macrosporium Camelliæ** Cooke et Mass. Grev. XVII, pag. 42. — 7837
Epiphyllum; maculis orbicularibus v. confluentibus, pallidis, margine lato, brunneo cinctis, 1 cm. v. ultra diam.; hyphis cæspitosis, septatis, simplicibus, 30-40 μ. long., pallide olivaceis; conidiis clavatis, 3-septatis, dein muriformi-multiseptatis, 56-60 ≃ 15-25, basi in pedicellum gracilem 30-50 μ. long. attenuatis, pallide olivaceis.

Hab. in foliis vivis Camelliæ japonicæ, Kew Britanniæ.

8. **Macrosporium guaraniticum** Speg. Guar. I, p. 171. — Cæspitulis 7838
penicilliformibus, olivaceis, dense aggregatis ac matricis superficiem totam minute velutino-puberulam efficientibus; hyphis erectis, cylindraceis, rectis, 3-7-septatis, 70-80 ≃ 5, apice obtusis, a basi liberis, olivaceis; conidiis clavatis, 5-7-septatis, leniter constrictis, loculis 5 superis verticaliter 1-2-septatis, 2-3 inferis gracilibus, cylindraceis, episporio levi, 30-50 ≃ 10-15, olivaceis.

Hab. ad legumina Cassiæ sp. pr. Guarapi Brasiliæ.

9. **Macrosporium baccatum** Ell. et Kell. Journ. Myc. 1889, p. 144. 7839
Hyphis fertilibus indumentum atro-olivaceum, compactum, velutinum efformantibus, parce ramosis v. simplicibus, torulosis, 3-8 μ. diam., hinc inde incrassatis, guttatis; conidiis acrogenis, ambitu lobulato-irregularibus, e loculis laxiuscule aggregatis, subglobosis ef formatis, 16-40 ≃ 8-27 non pedicellatis.

Hab. in fructibus vetustis Æsculi argutæ, Manhattan, Kansas Amer. bor. (Kellerman et Swingle).

II. *In Monocotyledoneis herbaceis.*

10. **Macrosporium canificans** Thüm. M. U. n. 2280 (absque diagnosi). 7840
— Maculis caulogenis sparsis, oblongis, albidis; acervulis atris, sparsis, minutis; hyphis brevibus subcæspitosis simplicibus, crebre septatis, 30-40 ≃ 5, fuligineis; conidiis ovato-oblongis, basi acutiusculis, 3-septato-muriformibus, ad septa constrictis fuligineis, guttulatis, 22-26 ≃ 10-12.

Hab. in caulibus emortuis Hibisci esculenti, Aiken Carol. austr. Amer. bor.

11. **Macrosporium Readeri** Winter in Rev. Myc. 1886, p. 212. — Cæ- 7841
spitibus effusis substratum longe lateque obducentibus, aterrimis, fasciculis hypharum plus minusve convergentium, minutis, discretis constitutis; hyphis erectis, simplicibus, longissimis, rigidis, valde flexuosis torulosisque, dense septatis, fuscis, 300-320 ≃ 9-10,5; conidiis clavatis, sursum in caudam filiformi-cylindricam dilutiorem attenuatis, septis transversalibus 10-14, septis longitudinalibus 2

aut pluribus in cellulis latioribus præditis, toruloso-constrictis, fuscis, 100-140 ≃ 19-20.

Hab. ad caules aridos Cynaræ Scolymi pr. Melbourne Australiæ (Reader). — Ab omnibus affinibus hyphis elongatis, validis, conidiorum magnitudine formaque diversum.

12. **Macrosporium spaniotrichum** Rabh. Unio Itin. XXIX et Grev. XVII, p. 66. — Cæspitulis gregariis, erumpentibus, minutis, atris; hyphis brevibus, simplicibus, septatis, conidia æquantibus, hyalinis; conidiis elongato-ellipticis, triseptatis (nondum muriformibus) fuligineis, 30 ≃ 10. 7842

Hab. in caulibus herbaceis, Terranova Sardiniæ (Doct. Marcucci). — Ad *Macrosporium* vix pertinens.

13. **Macrosporium Chelidonii** Rabh. Unio Itin. XXXVII (absque diagnosi). 7843

Hab. in caulibus Glauci flavi, Alghero Sardiniæ (Doct. Marcucci). — Speciei exemplaria non vidi; quæ in Herb. Kew., teste Cooke, sunt sterilia.

14. **Macrosporium elegantissimum** Rabh. Unio Itin. XXXV et Grev. XVII, p. 65. — Cæspitulis densis, erumpentibus, atris, floccosis; hyphis simplicibus, subtilibus, hyalinis; conidiis subglobosis oblongisve, varie divisis, sæpe muriformibus, dilute aureis, septis obscuris, 12-24 ≃ 10-12. 7844

Hab. in caulibus Suædæ, Alghero Sardiniæ (Doct. Marcucci).

15. **Macrosporium Valerianellæ** Roum. in Rev. Myc. 1886, p. 93. — Hyphis fasciculatis, simplicibus, septatis, 35-45 ≃ 4-7, claviformibus; conidiis sarciniformibus, multiseptatis, episporio nigrescente donatis, 12-18 ≃ 10-15. 7845

Hab. in caulibus exsiccatis Valerianellæ discoideæ, Rouen Galliæ, sociâ *Phomâ herbarum* (Ab. Letendre).

16. **Macrosporium sarcinæforme** Cav. in Dif. dei parass. 1890, n. 4, c. ic. — Hyphis sterilibus in parenchymate foliaceo repentibus, hyalinis, ramosis, septatis; hyphis fertilibus e stomatibus egredientibus, brevibus, erectis, rigidiusculis, parce septatis nodulosisque, brunneo-olivaceis; conidiis sarciniformibus, medio constrictis transverse et longitudinaliter septatis, concoloribus, 24-28 ≃ 12-18. 7846

Hab. in foliis Trifolii pratensis pr. Pavia Italiæ.

17. **Macrosporium Carotæ** Ell. et Langl. Journ. Myc. 1890, p. 36. — Hyphis fertilibus erectis, simplicibus, rectis, brunneis, septatis, demum sursum subramosis, 80-100 ≃ 4-6; conidiis clavatis, brunneis, 7847

5-7-septatis, 55-70 ≃ 12-14, loculo uno binisve longitud. divisis, pedicello longo, permanente 80-110 ≃ 1,5-2,

Hab. in foliis vivis, quæ flavescunt dein brunnescunt et torquentur, Dauci Carotæ, St. Martinsville La. Amer. bor. (Langlois).

18. **Macrosporium nigricans** Atkins. Bot. Gaz. 1891. p. 62. — Hyphis amphigenis, subfasciculatis v. sparsis, 50-140 ≃ 6-7, nodulosis, septatis, olivaceo-brunneis; conidiis apice oblique obtuse rostratis, medio arcte constrictis, levibus, transverse longitrorsum atque oblique septatis, olivaceo-brnnneis. 7848

Hab. in foliis Gossypii culti, quod vexat, Alabama in America boreali.

19. **Macrosporium schemnitziense** Bäuml. F. Schemn. III, p. 15. — Maculis epiphyllis, subcircularibus, arescendo dealbatis, fusco-marginatis, cæspitulis parvis, gregariis, brunneis; hyphis fertilibus erectis, ramosis, articulatis, fuscis, 80-100 ≃ 8, articulis inflatis; conidiis oblongis, utrinque rotundatis, 20-30 ≃ 14-18, brunneis, levibus, 3-7-septato-muriformibus. 7849

Hab. in foliis vivis Galeobdolonis lutei, Bardinova, Schemnitz Hungariæ.

20. **Macrosporium Abutilonis** Speg. Dec. Myc. Ital. n. 58. — Amphigenum; cæspitulis in macula subdisciformi olivaceo-fusca aggregatis; hyphis articulatis, ramosis, fumoso-hyalinis; conidiis clavatis, 5-7-septatis muriformibusque, pallide flavo-fumidis, prorsus pellucidis, 50-90 ≃ 10-15 (stipite incluso), stipite subæquilongo, basi attenuato concolore fultis. 7850

Hab. ad folia languida Abutilonis Avicennæ, in horto botanico Parma (Passerini).

21. **Macrosporium Lycopersici** Plowr. Fung. Dis. Tom. p. 3, f. 6. — Hyphis bene evolutis, nigris, septatis, subflexuosis; conidiis atrofuligineis, irregulariter piriformibus v. subquadrangularibus, muriformibus, 20-70 ≃ 10-20. 7851

Hab. in fructibus Solani Lycopersici, prope King's Lynn Britanniæ.

III. *In Monocotyledoneis, Acotyledoneis* etc.

22. **Macrosporium Alliorum** Cooke et Mass. Grev. XVI, p. 80. — Effusum; cæspitulis fuligineis, tenuibus; hyphis flexuosis, simplicibus, septatis, nodulosis, siccis collabascentibus; conidiis ellipsoideis, 3- 7852

septatis, dein in loculos quadrangulares transverse et longitudinaliter muriformi-divisis, succineis et olivaceo-tinctis, 40-50 ≃ 20-25.

Hab. in foliis Allii sp., E. Bergholt Britanniæ (Bloxam).

23. **Macrosporium graminum** Cooke in Rav. Amer. Ex. 606 et Grev. XVII, p. 66. — Effusum, tenuissimum, nebulosum; hyphis repentibus, demum ramulis assurgentibus, flexuosis, septatis, fuscis; conidiis clavatis, 4-5-septatis, subconstrictis, dein muriformibus, fuscis, 60-70 ≃ 22. 7853

Hab. in foliis Bambusæ, Carolina austr. Amer. bor.

24. **Macrosporium ignobile** Karst. Symb. XX, pag. 100. — Tenuissimum, maculam griseo-fuscam efficiens; hyphis repentibus paucis, abbreviatis, crebre articulatis, simplicibus, dilute fuligineis (sub vitro), 6-9 μ. cr. 7854

Hab. supra culmos Secales aridos pr. Mustiala Fenniæ.

25. **Macrosporium Scolopendrii** Cooke Grev. XVI, p. 81. — Maculis brunneis, orbicularibus v. irregularibus; cæspitulis parvis, sparsis, olivaceis; hyphis brevibus, raro ramosis, septatis, tenuibus; conidiis 3-4-septatis, transverse 1-2-septatis, pallide brunneis, 40 ≃ 15. 7855

Hab. in frondibus languidis Scolopendrii vulgaris, Irstead Britanniæ.

26. **Macrosporium Polytrichi** Peck 43 Rep. p. 31. — Cæspitulis continuis, olivaceis; hyphis erectis, septatis, subnodosis, coloratis, 75-100 ≃ 5; conidiis ellipsoideis, oblongis vel clavatis, coloratis, 2-9-septatis, septis longitudinalibus præditis v. destitutis, 20-60 ≃ 7,5-15. 7856

Hab. in urnis Polytrichi juniperini, Sevey. Amer. bor.

27. **Macrosporium utile** Kell. et Sw. II Rep. Agr. Kans. pag. 285, t. IX, f. 16-17. — Effusum, indumentum atro-brunneum, olivaceum, velutinum efformans; hyphis atris, erectis, septatis, paullum v. non constrictis, simplicibus vel raro ramosis, 50-125 ≃ 4,5-6; conidiis intense atris, elongato-cylindraceis, ellipsoideo-obovatis vel oblongis, basi sæpius breviter pedicellato-angustatis, 3-8-septatis, vulgo constrictis, longitudinaliter pauciseptatis, sæpe irregularibus, 29-37 ≃ 8-12. 7857

Hab. in Ustilaginibus, spiculas Avenæ infestantibus, in Kansas, Canada et Dania. — Fungillus utilis, nam vexat Ustilaginem, quæ vice sua vexat Avenam.

28. **Macrosporium Podophylli** Ell. et Ev. Proc. Acad. Phil. 1891, pag. 92. — Sæpius hypophyllum, effusum, tenue; hyphis sterilibus repentibus, pallide brunneis vel subhyalinis, ramulis 30-40 ≃ 4-5 continuis vel leniter septatis, erectis, subhyalinis; conidiis clavatis, 7858

flavo-brunneis, 4-5-septato-muriformibus, 30-50 ≃ 10-12, basi breviter et distincte pedicellatis.

Hab. in Æcidio Podophylli, Starkville, Miss. Amer. bor. (prof. S. M. Tracy).

MYSTROSPORIUM Corda — Sacc. Syll. IV, p. 539.

1. **Mystrosporium erectum** Ell. et Ev. Journ. Myc. 1888, p. 53. — 7859
Hyphis fertilibus erectis, septatis, fuscis, sursum subhyalinis, 35-40 ≃ 3-4, indumentum tenue, continuum, atro-fuligineum, subgranulosum efformantibus; conidiis acrogenis, solitariis, obovato-ellipsoideis, 22-25 ≃ 12-16, subopacis, indistincte locularibus.

Hab. in caulibus putribus Zeæ Maydis, Pointe à la Hache, Louisiana Amer. bor. (Rev. A. B. Langlois).

TRICHÆGUM Corda — Sacc. Syll. IV, p. 542.

1. **Trichægum Dulcamaræ** Passer. Diagn. F. N. IV, p. 16. — Acervu- 7860
lis hypodermicis, erumpentibus, globosis, fuscis, pulverulentis, stromate cellulis minutis, subglobosis contexto, innatis; hyphis erectis, flexuosis, fusciduli, apice pellucidis, septatis, circ. 75 ≃ 2,5-3; conidiis obovatis, basi attenuatis, tri-multiseptatis et muriformibus, fuligineis, pellucidis, ut plurimum 20-50 ≃ 12-20, stipite hyalino, continuo, recto v. flexuoso, 25-30 μ. long. fultis.

Hab. in ramulis emortuis Solani Dulcamaræ, Parma Italiæ borealis.

SEPTOSPORIUM Corda — Sacc. Syll. IV, p. 543.

1. **Septosporium heterosporum** Ell. et Gall. Journ. Myc. 1889, p. 67. 7861
— Maculis sparsis v. plus minus confluentibus, indefinite limitatis, supra rubiginosis, 0,5-1 cm. diam., subtus atro-fumosis v. ob tomentum folii griseis; hyphis hypophyllis, e folii stomatibus fasciculatim exsurgentibus; conidiis primo oblongo-cylindraceis, 2-3-septatis, 20-40 ≃ 5-7, mox constrictis, loculis 1-septatis.

Hab. in foliis vivis Vitis californicæ prope Orange, Calif. Amer. bor. (prof. F. L. Scribner).

DACTYLOSPORIUM Harz — Sacc. Syll. IV, p. 545.

1. **Dactylosporium brevipes** Grove in Journ. of Bot. 1886, p. 204, 7862
tab. 267, fig. 7. — Gregarium, atrum; hyphis erectis, brevibus, flexuosis, fuscis, sursum pallidioribus, dense septatis, subtorulosis (cellulis subquadratis), simplicibus v. apicem versus furcatis, 50-70 ≃

5, apice capitulum aterrimum, compactum, 5–8 conidiorum gerentibus; conidiis obovatis, saturate fuscis, fere opacis, 20–22 × 10–13, anguloso-cellulosis, septo unico longitudinali, reliquis obliquis vel radiantibus.

Hab. in ligno Aceris Pseudoplatani, Sutton Coldfield prope Birmingham, Britanniæ. — *D. macropodi* peraffine et quasi varietas, at satis diversum videtur.

ALTERNARIA Nees — Sacc. Syll. IV, p. 545.

1. **Alternaria Cucurbitæ** Let. in Roum. in Rev. Myc. 1886, pag. 93. 7863
— Hyphis brevibus, approximatis, rectis, subsimplicibus, brunneis; conidiis lageniformibus, olivaceis, magnitudine variis, sæpius 60–68 × 8-9.

Hab. in maculis aridis Cucurbitæ Melonis var. cultæ, Rouen Galliæ (Ab. Letendre).

2. **Alternaria Malvæ** Roum. et Let. in Rev. Myc. 1885, pag. 177. — 7864
Hyphis aggregatis, rectis, brevibus, non septatis, fuligineis, sæpius ramosis; conidiis superpositis, forma variis, subrotundis, sæpius cuneiformibus, brunneis, 33-54 × 9-14, transverse pluriseptatis.

Hab. in maculis aridis foliorum Malvæ crispæ a *Puccinia Malvacearum* vexatorum, Seine-Inférieure Galliæ.

3. **Alternaria Brassicæ** (Berk.) Sacc. Syll. IV, pag. 549. — Var. **Somniferi** Har. et Br. Rev. Myc. 1891, p. 18. — Hyphis brevibus, torulosis, fasciculatis, densis, 30-40 × 6–7, fuligineis, 1-2-septatis; conidiis oblongo-clavatis, apice subacutatis, 5-9-septatis, constrictis, septo longitudinali loculos binos vel plures dividente, læte olivaceis, 52-80 × 14-20, longe pedicellatis. 7865

Hab. in fructibus Papaveris somniferi in horto botanico Musei, Paris Galliæ (P. Hariot).

4. **Alternaria lancipes** Ell. et Ev. Journ. Myc. 1888, p. 45. — Hypophylla, subolivaceo-velutina; maculis rotundis, nigris, concentrice rugosis, subindefinitis, 2–5 mm. diam.; hyphis brevibus, erectis, subfasciculatis, pallide olivaceis, apice noduloso-incrassatis; conidiis primo concatenatis, mox deciduis, sæpius 3–septatis, valde constrictis, loculo infero acuminato, supero obtuse rotundato, demum sursum longitudinaliter divisis. 7866

Hab. in foliis vivis Argemones platyceratis Manhattan, Kansas Amer. bor. (W. T. Swingle) socio *Glœosporio Argemonis.*

5. **Alternaria Vitis** Cavara Dissecc. grapp. p. 29, t. III, f. 8-11. — 7867
Maculis epiphyllis, nervisequis, cinerescentibus; hyphis subfascicu-

latis, erectis v. adscendentibus, parce ramosis, septatis, olivaceis, 60-120 μ. long.; conidiis lageniformibus, cito deciduis, concoloribus 40-60 × 12-14, transverse et longitudinaliter septatis, ad septa constrictis.

Hab. in foliis Vitis viniferæ, Mazzara, Godiasco, Voghera, Stradella Ital. bor.

6. **Alternaria pulvinata** Cooke et Mass. XVIII, p. 56. — Grisea, pulvinata, 1-1½ mm. diam.; hyphis erectis, densissime fasciculatis, pulvinulos hemisphærico-depressos efformantibus; conidiis ovoideis, utrinque acuminatis, clathrato-septatis, fuscis, 65-70 × 30-35, demum opacis, isthmis subhyalinis. 7868

Hab. in stipitibus Palmararum, Java (Kurz).

SARCINELLA Sacc. Syll. IV, p. 548.

1. **Sarcinella? solanicola** Speg. F. Guar. nonn. n. 160. — Hyphis fertilibus e mycelio repente surgentibus, rectis vel flexuosis, 50-90 × 3, continuis, fusco-atris, subopacis; conidiis monomorphis acrogenis, solitariis, subglobosis, 16-20 μ. diam., utrinque applanatis, 4-6-cellularibus, constrictis, cellulis monostichis, 10-12 μ. diam., opace fuligineis. 7869

Hab. in foliis vivis Solanaceæ cujusdam in dumetis Caà-guazù Brasiliæ. — Status conid. *Dimerosporii solanicoli.* — Conidia hyalina heteromorpha — hoc in genere typice obvia — non visa, forte jam delapsa.

Sect. 5. Helicosporæ Sacc.

Subsect. 1. Micronemeæ Sacc.

HELICOPSIS Karst. Rev. Myc. 1889, p. 96 (Etym. *helix* et *opsis* aspectus). — Hyphæ obsoletæ; conidia cylindracea, in spiram convoluta seu helicoidea, olivacea (sub lente fuliginea), septata. — Est *Helicomyces* dematieus.

1. **Helicopsis olivacea** Karst. loc. cit. — Cæspitulis gregatim sparsis, nonnumquam macula expallente insidentibus, obovoideis v. subsphæroideis, olivaceis, circ. 0,1 mm. lat.; conidiis in spiram arcte convolutis, 9-11-septatis, eguttulatis, dilute fuligineis (sub micr.), 3 μ. cr., tota spira 7-8 μ. diam. 7870

Hab. in hymenio Corticii rosei adhuc vegeti pr. vicum Susikais in Fennia australi.

Subsect. 2. **Macronemeæ** Sacc.

HELICOSPORIUM Nees — Sacc. Syll. IV, p. 557.

1. **Helicosporium albidum** Grove in Journ. of Bot. 1886, pag. 204, tab. 267, fig. 6. — Hyphis erectis, septatis, fere hyalinis, primo simplicibus, dein infra ramosis, 200-300 μ. alt., 2½–3 μ. crass., supra æque ac ramis longis, adscendentibus, sterilibus et flagelliformibus; conidiis lateralibus, substipitatis, hyalinis, pluriguttulatis, 2-2½ μ. crass., basi attenuatis, apice obtuse rotundatis, in circulum 15-20 μ. diam. dense spiraliter convolutis; spiris plerumque quaternis. 7871

   Hab. in ramis tenuibus Rubi fruticosi, Middleton prope Birmingham Britanniæ. — Cl. Grove non pro certissimo habet hunc non esse statum abnormem, sed cui speciei subjungat, dijudicare nescit. Fungillus maculas albidas velutinas efformat.

2. **Helicosporium herbarum** Bomm. Rouss. Sacc. Contr. Myc. Belg. IV, p. 97. — Cæspitulis minutis, subrotundis, flocculosis, prostratis; hyphis repentibus hyalinis dein fuligineis, longe ramosis, flexuosis, septatis, 4,5-5 μ. cr., hinc inde hyalino-denticulatis; conidiis copiosis e denticulis nascentibus, filiformibus, 1,5-2 μ. cr., in spiram quater arcte convolutis, pluriseptatis, in articulos secedentibus sed non sese evolventibus. 7872

   Hab. in basi caulium Epilobii hirsuti, Groenendael Belgii. — Affine *Hel. albido*, sed rite distinctum.

3. **Helicosporium diplosporum** Ell. et Ev. Proc. Acad. Phil. 1891, pag. 93. — Nigrum, effusum, velutinum, tenue; hyphis sterilibus ramosis, brunneis, fertilibus erectis, conferte septatis, subcylindraceis, subopacis, 35-40 × 5-6; conidiis in spiras arcte binatas, pluriarticulatas, spiraliter convolutis, brunneis, solitariis, discum circularem basi leviter excavatum, 20-22 μ. diam. formantibus. 7873

   Hab. in caulibus emortuis Smilacis, St. Martinsville, Louisiana Amer. bor. (Langlois).

Fam. 3. **Stilbeæ** Fr.

Ser. 1. **Hyalostilbeæ** Sacc.

Sect. 1. **Amerosporæ** Sacc.

STILBUM Tode — Sacc. Syll. IV, p. 564.

1. **Stilbum macrocarpum** Ell. et Ev. in Journ. of Myc. 1886, p. 103. — 7874

Stipitibus albis, cylindraceis vel laxe floccoso-fibrillosis, ½ mm. altis, circiter 75 μ. crassis; capitulo subgloboso, atro, 100-125 μ. diam.; conidiis oblongis, granulosis nucleatisque, 12-20 ≃ 6-7, subcatenulatis, muco obvolutis, in capitulum arcte congestis.

Hab. in ligno putri in America boreali (Langlois). — A *S. parvulo* nisi capitulo atro distinguendum.

2. **Stilbum Spegazzinianum** Sacc., *Stilbum physaroides* Speg. F. Puigg. n. 465, nec Kalchbr. — Sparsum v. laxissime subgregarium, erumpens; stipite erecto, sordide lateritio-cinnabarino, 1-2 mm. long., 100-150 μ. cr., gracili compresso; capitulo globoso-hemisphærico, minuto carneo, 400-600 μ. diam., inferne applanato v. subumbilicato; conidiis obovatis, hyalinis, 6-7 ≃ 3-4, uni-biguttatis. 7875

Hab. ad corticem adhuc virentem arboris cujusdam in silvis pr. Apiahy Brasiliæ.

3. **Stilbum Karstenii** Sacc., *Stilbum nigripes* Karst. Hedw. 1889, nec Carm. — Stipitibus solito fasciculatis, subulatis vel setæformibus, glabris, atris (sub micr. olivaceis), 1-2 mm. altis, capitulo globuloso-flavescente v. pallido; conidiis ellipsoideis, 5-7 ≃ 3; sporophoris 20-30 ≃ 0,5-1. 7876

Hab. in cortice arborum frondosarum, Sepitiba in Rio de Janeiro.

4. **Stilbum Rehmianum** Rabenh. Hedw. 1862, II, pag. 59, t. X, III, fig. 2 *b, c* (*Eustilbum*). — Capitulo globoso, stipite cylindraceo crassiusculo, ruguloso, triplo longiore suffulto; sporophoris capituli fasciculatis radiantibus filiformibus, hyalinis, in conidia minutissima 1,5-2 μ. longa, ovoidea, hyalina (catenulata?) abeuntibus. 7877

Hab. ad cortices Pini in Germania (Rehm). — Diagnosim ex icone erui.

5. **Stilbum Kurzianum** Cooke Grev. XVI, pag. 71. — Solitarium vel cæspitosum, minutum, capitulo subgloboso, albido; stipite fusco-badio, deorsum leviter incrassato; conidiis ellipticis, nucleo excentrico ornatis, 10 ≃ 4-5. 7878

Hab. in ramis, Seebpore, Bengal, India (Kurz).

6. **Stilbum corallinum** Cooke et Mass. Grev. XIX, p. 91. — Cæspitosum, carneum; stipite sursum attenuato, brevi-ramuloso, farinoso; capitulo hemisphærico vel subirregulari, subgloboso aurantio-rubro; conidiis ellipsoideis, continuis, hyalinis, 5 ≃ 2. 7879

Hab. in corticibus, Victoria Australiæ (Mrs. Martin).

7. **Stilbum Hibisci** Pat. Journ. Bot. 1891, p. 320. — Sparsum v. minute gregarium 1-2 mm. alt.; stipitibus erectis, simplicibus v. sursum ramosis, glabris, aurantio-rufis; capitulo albo, ovoideo v. sub- 7880

globoso; stipitis hyphis asperulis; basidiis capituli hyalinis, bacillaribus, 50 ≃ 2-3; conidiis solitariis, acrogenis, ellipsoideis, 10-15 ≈ 6-8.

Hab. in cortice putri Hibisci, Ke So Tonkin Asiæ orient.

8. **Stilbum pilacriforme** Rich. Cat. Champ. Marn. n. 2070. — Minute clavatum, album, breviter velutinum; hyphis capituli apice furcatis et brunneis; conidiis glaucis, hyalinis, piriformibus. 7881

Hab. in ligno putri Ulmi campestris et Alni glutinosæ, St. Amand, Soulanges Galliæ.

9. **Stilbum viridipes** Boud. Rev. mycol. 1887, p. 158, t. 44, f. II. — Minutissimum, vix ultra 0,5 mm. alt.; stipite simplici, glabro, erecto, apicem versus sensim attenuato, æruginoso, basi saturatiore; capitulo albo; conidiis ovatis, 2-guttatis, minutissimis, 1,5 ≃ 1. 7882

Hab. ad ligna putrida, Montmorency Galliæ.

10. **Stilbum xanthopus** Rabenh. Bot. Zeit. 1860, pag. 174. — Gregarium, e subiculo viridi griseo, mucoriformi, dein evanescente enatum; stipite e basi plus minus dilatata cylindraceo, capitulum longe superante, tenaci, flavido-subochraceo, rufescente; capitulo exsiccando pulchre smaragdino, demum in stipitis colorem mutato; conidiis minutis, globosis, hyalinis. 7883

Hab. in doliis vinariis in cellis, Dresden Germaniæ.

11. **Stilbum sanguineum** Oud. Microm. I, p. 13. — Hypophyllum, sparsum, erectum, 0,5-1 mm. alt.; mycelio albo, lanoso; stipite albo; capitulo perfecte globoso; conidiis e basidiis delapsis, mucilaginis ope in globulum coalitis, perfecte ovoideis, rubescentibus, non concatenatis, 4,5 ≈ 2,5. 7884

Hab. in foliis putridis Gneti Gnomonis in horto botanico Amsterdam Hollandiæ.

12. **Stilbum nigripes** (Carm.) Cooke Grev. XVI, p. 81, *Isaria nigripes* Carm. in Herb. Kew. — Minutum; capitulo subgloboso, albido, stipite capillari, nigro, 2 mm. long. glabro, rigidulo; conidiis globosis, hyalinis, 4-5 μ. diam. 7885

Hab. in foliis emortuis quercinis, Appin Britanniæ.

13. **Stilbum albo-roseum** Pat. Bull. Soc. Myc. 1888, p. 126. — Stipite roseo, erecto, cylindraceo, glabro, utrinque atque interdum medio incrassatis; capitulo globoso, roseo-albo; conidiis ovoideis, hyalinis. 7886

Hab. in fructibus putridis Protii, Puerto Zamuro Venezuelæ. — Fungus 2-3 mm. alt.

14. **Stilbum herbarum** Rabenh. Bot. Zeit. 1858, p. 303. — Sparsum, 7887

clavatum, stipite brevi, rigido, ex albo lutescente, basi dilatato; capitulo rotundato-elongato, mox turbinato, fuscescente; conidiis ovoideis, hyalinis.

Hab. in foliis, petiolis capitulisque Eryngii campestris, pr. Daemitz Germaniæ.

15. **Stilbum physaroides** Kalchbr. Grev. XIX, pag. 6. — Stipitibus 7888
sparsis, vitellinis, brevibus, deorsum incrassatis; capitulo subgloboso, laxo, albido; hyphis furcatis vel breviter ramulosis; conidiis ovoideis, hyalinis, 4-5 ≃ 2.

Hab. in caulibus herbaceis in Capite Bonæ Spei Afr. austr.

16. **Stilbum Bambusæ** Pat. Bull. Soc. Myc. 1888, p. 125. — Grega- 7889
rium, 2-3 mm. alt.; stipite cylindraceo, capitulo pallidiore, gracili, pruinoso, basi fibrillis radiantibus cincto; capitulo subgloboso, subtus depresso, roseo; conidiis ovoideis, utrinque obtusis, hyalinis, 1-2-guttatis, 5-6 ≃ 3.

Hab. in culmis Bambusæ, Puerto-Perico Venezuelæ.

17. **Stilbum capillare** E. et E. Journ. Myc. 1888, p. 46. — Stipite 7890
capillari, albo, levi, $^1/_2$-$^3/_4$ mm. alt., 20-25 μ. cr., capitulo ovoideo, dilutissime carneis, circ. 75 μ. diam.; conidiis oblongo-ellipsoideis, 3-4 ≃ 0,5, hyalinis, 2-guttatis.

Hab. parasitice in Trichia varia, Jamesville, N. York Amer. bor. — *St aciculoso* subaffine.

18. **Stilbum sebaceum** E. et E. Journ. Myc. 1888, p. 116. — Album, 7891
gregarium, 0,5 mm.; stipite albo, tomentoso-pubescente, laxe fibroso, 40-50 μ. cr.; capitulo obovato v. subgloboso, 150-200 μ. diam. albo, dein carneo; sporophoris ramosissimis; conidiis subglobosis vel subellipsoideis, 4-5 μ. diam., hyalinis, plerumque 1-guttatis, demum cum iis capitulorum vicinorum in massam glœosporioideam conglutinatis.

Hab. in Stereo spadiceo, Newfield N. J. Amer. bor., socio *Penicillio Hypomycetis.*

19. **Stilbum citrinellum** Cooke et Mass. Grev. XVI, p. 81. — Minu- 7892
tum, sparsum; stipite erecto, cylindrico, albido; capitulo subgloboso, flavo-citrino, sursum subattenuato; sporophoris compactis apice furcatis; conidiis solitariis, ellipsoideis, continuis, hyalinis, 7-9 ≃ 4.

Hab. in foliis languidis Lycopodii, Kew London Britanniæ. Totus fungillus 2 mm. altis.

20. **Stilbum formicarum** Cooke et Mass. Grev. XVIII, p. 8. — Sti- 7893
pitibus elongatis, gracilibus 5-8 mm. long., atris, flexuosis, deor-

sum leviter incrassatis; capitulo obóvato, roseo; conidiis ellipticis 10 ≈ 3, hyalinis.

Hab. in Formica emortua Cheltenham, Victoria Australiæ (FRENCH).

21. **Stilbum caninum** Cooke et Mass. Grev. XX, p. 26. — Gregarium, clavatum v. subspathulatum, carneum, 5-7 mm. alt., capitulo obscuriore, cum stipite glabro continuo; conidiis ellipsoideis, continuis, hyalinis, 5 ≈ 3. 7894

Hab. in stercore canino, Victoria Australiæ (MARTIN). — Stipes passim furcatus. *St. fimetario* majus, conidiis minoribus.

22. **Stilbum humanum** Karst. Rev. Myc. 1888. — Stromatibus gregariis, subinde compactis, connatis, fragilibus, furfuraceis, usque ad 1 mm. altis, capitulis sphæroideis, ovoideis vel inæqualibus, difformibus, dein cinerescentibus; stipite tereti vel vario compresso, albido, crassiusculo; conidiis sphæroideis, chlorino-hyalinis, muco obvolutis, 3 μ. diam. v. 4 ≈ 3, copiosis acervatis. 7895

Hab. in merda humana prope Mustiala Fenniæ. — Si conidia non essent muco obvoluta, species ad *Ciliciopodium* ducenda.

23. **Stilbum coprogenum** E. et E. Journ. Myc. 1888, p. 116. — Stipite molli, deorsum rubenti-brunneo, sursum pallidiore, subæquali, 5-6 mm. alto, 0,2-0,3 mm. cr.; capitulo flavido-albo, clavato, 1,5 mm. long.; conidiis breve ellipsoideis vel subglobosis, subhyalinis, 3-3,5 μ. long. 7896

Hab. in stercore animalis cujusdam (Taxideæ?) in silvis humidis Newfield N. J. Amer. bor.

CORALLODENDRON Jungh. — Sacc. Syll. IV, p. 576.

1. **Corallodendron cervinum** Cooke et Mass. Grev. XVI, pag. 71. — Stromatibus erectis, rigidis, cervinis ad 25 mm. long., et hyphis violaceis, septatis 10 μ. diam. compositis; stromate sparse ramoso, ramis breviter ramulosis, ramulis numerosis, patentibus, brevibus, apice in capitula globosa incrassatis; conidiis ovalibus 12 ≈ 7-8, primo (3-4) catenulatis. 7897

Hab. in seminibus Landolphiæ ex Africa (E. M. HOLMES). — Articulus ultimus hypharum compactarum est fuscellus et, tamquam basidium, gerit conidiorum catenulas.

CILICIOPODIUN Corda — Sacc. Syll. IV, p. 577.

1. **Ciliciopodium aurifilum** Gerard in Grev. XIX, p. 15. — Stipitibus 7898

elongatis, setulis strigosis, aureo-flavidis; capitulo piriformi vel clavato, albido; conidiis minutissimis globosis, 1 μ. vix excedentibus.

Hab. in Dædalea unicolore in America boreali.

CLAVULARIA Karst. Symb. ad Myc. Fenn. IX, p. 67 (Etym. a *clavula*). — Stipites teretes, ex hyphis tenuissimis, longitudinalibus, coalitis constantes, superne clavato-conidiophori. Conidia fusoidea vel teretia, simplicia, eguttulata, hyalina. — «Genus *Ciliciopodio* affine, an ab eo satis distinctum?»

1. **Clavularia fusispora** Karst. Symb. ad Myc. Fenn. IV, pag. 67. — 7899
Sparsa vel gregaria, obovato-clavata, pallida seu albida, circiter 1 mm. alta; strato conidiorum ceraceo, siccitate subcollabente; conidiis fusoideis, rectis, concatenatis, 6-9 = 2-3,

Hab. ad lignum induratum populinum prope Mustiala Fenniæ. — Primo obtutu pro specie *Pistillariæ* vel *Calocerææ* facile sumitur.

2. **Clavularia stenospora** Karst. Symb. ad Myc. Fenn. IX, p. 67. — 7900
Stipitibus oblongato-clavatis, breviter stipitatis, albidis; conidiis cylindraceis, rectis, hyalinis, 4,5-6 = 1-1,5.

Hab. ad lignum sectum Alni incanæ prope pagum Kytö in parœcia Tammela Fenniæ.

3. **Clavularia mycogena** Karst. Symb. XIX, pag. 92. — Stromatibus 7901
dense gregariis, 0,5-1 mm. alt.; stipite teretiusculo v. compresso, crasso, stricto, dein glabrescente, albido; capitulo ovoideo v. sphæroideo, ceraceo, nudo, flavescente (saltem in sicco); hyphis dense radiato-fasciculatis, filiformibus; conidiis elongatis vel oblongatis, rectis, hyalinis, 4-6 = 1-2.

Hab. in Fuligine variante vetusta pr. pagum Mansikkaniemi par. Tammela Fenniæ.

PILACRE Fr. — Sacc. Syll. IV, p. 579.

1. **Pilacre Solani** Cohn et Schöt. in Schröt. Pilze Schles. p. 385 (*Pilacrella*). — Gregaria, minutissima, albida; stipite usque ad 2 mm. alt., ex hyphis dense intertextis composito, supra abrupte in discum planum vel subconvexum, circ. 1 mm. lat., album, e basidiis clavatis, 60-70 = 6-7 et paraphysibus prominulis efformatum, dilatato; conidiis solitariis, elongato-ovoideis, 15-17 = 7-9, basi acuminatis, hyalinis, membrana levi. 7902

Hab. in tuberibus Solani tuberosi, Breslau Silesiæ (F.

2. **Pilacre poricola** Rich. Cat. Champ. Marn. n. 2074 (*Ecchyna*). — 7903
A *P. faginea*, cui omnino affinis, differt præcipue statura majore.
Hab. in poris Polypori (Fomitis) salicini putris in silvis St.-Amand Galliæ.

COREMIUM Link — Sacc. Syll. IV, p. 581.

1. **Coremium vulpinum** Cooke et Mass. Grev. XVI, p. 81. — Sparsum, 7901
ochraceum; hyphis fasciculato-concretis, erectis, septatis, superne ramulosis; conidiis ellipticis, uniguttulatis, concatenatis, hyalinis, 10 ≈ 5; capitulis compactis, muco hyalino involutis.
Hab. in stercore vulpino (ex herb. Hooker, sed locus non indicatus).
2. **Coremium cinereo-album** (Bon.) Sacc., *Sclerotmitra* Bon. Handb. 7905
pag. 141, t. X, fig. 243. — Capitulo obovato, griseo-cæsio, stipite albo cylindraceo, paullo longiore; hyphis fasciculatis, filiformibus septulatis, hyalinis, sursum bis ter dichotomo-ramosis in catenulas conidiorum abeuntibus; conidiis ellipsoideis, minutis, hyalinis.
Hab. gregatim in excrementis in Guestphalia.

MICROSPATHA Karst. Rev. Myc. 1889 (Etym. *micros* parvus et *spatha*). — Stromata verticalia, spathulata, plana, distincte stipitata, submembranacea, inferne conidifera. Conidia concatenata, sphæroidea vel ellipsoidea, continua, hyalina.

1. **Microspatha glauca** Karst. loc. cit. — Stromatibus sparsis, defle- 7906
xis, submembranaceis, margine sterili tenuissimo ex hyphis coalitis compositis, spathulatis, stipitatis, nudis, glauco- v. olivaceo-pallidis, siccitate nigrescentibus, 0,5-1 mm. altis, stipite tereti, molli, pallidiore; strato conidiifero infero, gelatinoso-molli, pallido; conidiis in catenulas fasciculatas, ramosas, rectas connexis, sphæroideis, ultimis seu apicalibus ellipsoideis minoribusque, muco obvolutis, hyalinis, 3-4 μ. diam. v. 3,5 ≈ 2-4.
Hab. ad corticem vetustum in Minas Geraes, Sitio Brasiliæ (Edw. Wainio).

ISARIA Pers. — Sacc. Syll. IV, p. 584.

1. **Isaria brevis** B. et C. North Am. Fungi n. 585. — Candida, re- 7907
ceptaculis, brevibus, linearibus, obtusis, fasciculatis, hispidis; conidiis globosis.
Hab. in ligno emortuo in Pennsylvania Amer. bor. (Michener).
2. **Isaria radiata** B. et C. North Am. Fungi n. 584. — Prostrata, 7908

radians, albida, sicca flavida; receptaculis filiformibus obtusiusculis; conidiis globosis, 5 μ. diam.

Hab. in ligno pineo Alabama Amer. bor. (PETERS). — Stromata seu receptacula basi ex hyphis laxius junctis, continuis formata.

3. **Isaria glauca** Ditm. — Syll. IV, pag. 592 — ***americana** Karst. 7909
Hedw. 1889. — Stromatibus cæspitosis, rarius basi connatis, subsimplicibus, teretibus v. complanatis, apice attenuatis vel obtusis, fuligineo-pallidis, seu fuscescentibus, undique pruina puberula canescente obductis, vix 2 mm. altis; conidiis fusoideo-oblongatis, rectis, eguttulatis, hyalinis, 4-6 ≃ 1,5-2, pilis asperis fuligineis v. hyalinis, usque ad 30 ≃ 3.

Hab. in cortice arborum frondosarum vetusto in Minas, Lafayette Brasiliæ. — *Isariam glaucam* cum *Is. glaucocephala* conjungit; verisimiliter omnes tres ad unam eandemque speciem pertinent.

4. **Isaria hystricina** Karst. Rev. Myc. 1889. — Stromatibus solito 7910
simplicibus, setaceis v. filiformibus, 1-3 mm. altis et 50-150 μ. cr., ex hyphis fasciculatis, subcontinuis, flavido-hyalinis tenaciter coalitis, præsertim basin versus laxe floccosis, hyphasmate floccoso-intertexto, albido insidentibus, cæspites magnos, circiter 1 cm. latos, argillaceo-alutaceos (in statu sicco) formantibus; conidiis sphæroideo-ellipsoideis vel sphæroideis, eguttulatis, hyalinis, 7-9 ≃ 6 v. 6 μ. diam.

Hab. ad truncum putrescentem Salicis fragilis in oppido Tammerfors Fenniæ.

5. **Isaria straminipes** E. et E. Journ. Mycol. 1888, p. 117. — Stro- 7911
matibus simplicibus, clavatis, tomentoso-farinosis, capitulo obtuso, circ. 1 mm. cr.; conidiis copiosis, obovatis, hyalinis, 2-2,5 ≃ 1.

Hab. in ramis dejectis in umbrosis uliginosis St. Martinsville La. Amer. bor. (LANGLOIS). — Stromata insident subiculo initio flavo, demum tabacino, stipes quoque demum tabacinus. Affinis *I. clavatæ*.

6. **Isaria rhodosperma** Bres. Verhand. bot. Ver. Brand. 1890, p. X. — 7912
Dense gregaria lateque distributa; stromate albo, clavato, 2-3 mm. longo, apice 1 mm. crasso, ex hyphis cylindraceis dense stipatis, 4-6 μ. latis conflato, strato conidifero farinaceo, læte roseo, corticato; conidiis obovato-elongatis, 5-8 ≃ 3½-4.

Hab. in tepidariis horti botan. berolinensis ad truncos Seaforthiæ elegantis, quos ex integro obducit (P. HENNINGS).

7. **Isaria ambigua** Karst. Rev. Myc. 1890, n. 47. — Stromatibus gregariis v. cæspitosis, solito basi membranula albida conjunctis, filiformibus, teretibus v. compressis, vulgo superne in ramos paucos aciculares erectos divisis, nudis, ex hyphis parallelis, filiformibus, coalitis, continuis, 3 μ. crassis compositis, albidis, siccitate pallidis v. flavescentibus, subindeque apice obscurioribus, vix 1 cm. alt., 75-150 μ.; conidiis non visis. 7913

Hab. ad lignum putrescens in ollis in Fagervik, prædio Fenniæ (Edw. Hisinger).

8. **Isaria Arbuscula** Bres. et Roum. Rev. Myc. 1890, p. 38. — Stromate gregario, candido, arboriformi, stipite filiformi 2 mm. alt., prædito, sursum in ramos plurimos intricatos protenso, 2,5-3 mm. alt. et lat.; conidiis globoso-ellipsoideis vel obovatis, hyalinis, 8-9 ≃ 6. 7914

Hab. in cortice lignorum putrescente in insula St. Thomé (Newton).

9. **Isaria aggregata** Cooke et Mass. Grev. XIX, p. 48. — Cæspitosa; stromatibus basi incrassatis, confluentibus, sursum subacutis, simplicibus, rarissime furcatis, subinde compressis flexuosisve, 1 cm. longis, in corticem fasciculato-erumpentibus, fasciculis gregariis, cinereis, glaucescentibus; conidiis albidis, 3 ≃ 2. 7915

Hab. in cortice Mahoe Mount Egmond, New Zealand (Kirk).

10. **Isaria fulvipes** Peck 32 Rep. p. 39. — Sparsa v. raro cæspitosa, clavata, 2-4 mm. alt.; capitulo albido v. cinereo, farinoso, obtuso; stipite brevi, aurantio-fulvo, ochraceo; conidiis minutis, ovoideis v. subellipsoideis, circ. 2,5 μ. cr., filamentis brevibus, processus virides, late divergentes, breves gerentibus, insertis. 7916

Hab. in caulibus herbaceis, North Greenbush Amer. bor.

11. **Isaria repens** Cooke Grev. XVI, p. 71. — Stromatibus filiformibus, intertextis, niveis, ex hyphis fasciculatis compositis, ubique sporophora brevia gerentibus; conidiis ellipticis, continuis, hyalinis, 8 ≃ 4-5. 7917

Hab. in glumis Gynerii argentei in California. — Anomala species, *Acremonium* compositum imitans.

12. **Isaria plumosa** Cooke Grev. XVI, p. 71. — Solitaria; stromate erecto, ad 25 mm. alto, carneo, plumoso-ramosissimo, ramulis elongatis, attenuatis, undique glabris, subcorneis; conidiis minutis, globosis, hyalinis, 3 μ. diam. 7918

Hab. in nervo foliorum emortuorum in Brasilia (Spruce).

13. **Isaria congesta** B. et C. North Am. Fungi n. 586. — Recepta- 7919

culis congestis, gilvis, deorsum nodosis, apice nodulosis; conidiis minutissimis, elliptico-oblongis, acrogenis.

Hab. in stromate Ustulinæ vulgaris in Carolina inf. Americæ borealis.

14. **Isaria muscigena** Cooke et Mull. Grev. XVI, p. 81. — Pallida, gregaria, non fasciculata, stromate erecto, simplici v. furcato compressoque, 2-4 mm. alt.; conidiis majusculis, sphæroideis, 9 ≃ 8, hyalinis. 7920

Hab. ad truncos inter Hypnum serpens, Eastbourne Britanniæ (Muller).

15. **Isaria suffruticosa** Cooke et Massee Grev. XIX, p. 45. — Subcæspitosa, alba, 3 cm. alta; stipite distincto, simplici glabro vel subfarinoso, sursum ramoso-diviso, ramis tenuibus intricatis lateraliter acute ramulosis, ramulis ultimis conidiophoris; conidiis anguste ellipsoideis, 4-5 ≃ 1,5, in apice sterigmatum brevium solitarie acrogenis. 7921

Hab. in brucho quodam hirsuto, New England Australiæ (A. R. Crawford).

16. **Isaria ramosissima** Zoll. Flora 1847, pag. 300. — Subgregaria, basi flavescenti albida, apicem versus candida dendroidea, ramosissima, ramulis farinaceis. 7922

Hab. ad elytra Caraborum emortuorum inter folia putrida in silvis pr. Bant Asiæ orient.

17. **Isaria cuneispora** Boud. in Rev. mycol. 1887, p. 158, t. 44, f. I. — Effusa, alba, entomogena; mycelio albo, e filamentis minute granulosis, albis, septatis, racemosis, intricatis efformato; hyphis sporiferis erectis, 600-700 ≃ 2-3, simplicibus aut 1-2-ramosis, continuis, hyalinis, apice attenuatis; conidiis solitariis, hyalinis longe conicis, non v. vix granulosis, basi crassiore adfixis, 12-14 ≃ 2-2,5. 7923

Hab. ad Araneas emortuas sub cortice truncorum putridorum in terra jacentium, Montmorency Galliæ.

18. **Isaria gracilis** Speg. Guar. I, p. 171. — Effusa, crustaceo-tomentella, candida, hinc inde ramulos tenuissimos, concolores, rectos, simplices, 9-10 ≃ 0,1-0,2 mm. emittens; ramulis ex hyphis gracillimis, 1,5-2 μ. cr., densissime constipatis ac subcoalescentibus, apice tantum liberis efformatis; conidiis acrogenis, ellipsoideis, utrinque acutiuscule rotundatis, 3-4 ≃ 1,5, non vel minute guttulatis, hyalinis. 7924

Hab. ad Coleoptera (Cassis sp.) emortua putrescentia in rimis corticis truncorum, Cerro de S. Thomas Brasiliæ.

19. **Isaria melanopus** Speg. F. Puigg. n. 468. — Sparsa v. gregaria; 7925
stipitibus erectis teretibus coriaceis, basi atris, apice pallidis, glebris 1-5 mm. alt. 150-200 μ. cr., capitulo clavulato carneo-aurantio 0,5-1 mm. long., 250-500 μ. cr., levi; conidiis e cylindraceo obovatis, hyalinis, 5-10 ≃ 3-4, sterigmatibus cylindraceis 10-15 × 3, apice obtusulis suffultis.

Hab. ad corpora putrescentia Coleopterorum in truncis cariosis et muscosis prope Apiahy Brasiliæ — Species statum conidicum *Cordycipitis australis* Speg. facillime sistens, inter *Stilbum* et *Isariam* nutans.

20. **Isaria lutea** (Brond.) Sacc. *Coniocephalum* Brond. Rec. Crypt. 7926
Agen. I, p. 17, t. IV, f. 1-3. — Globulosa, primo lutea, demum virescenti-cinerea pulverulenta; stipite concolore, cylindraceo capitulum subæquante.

Hab. in stercore murino foliis dejectis quercinis obtecto, Agen Galliæ. — An *I. sulphureæ* affinis? Ceterum hæc et sequens, ignota conidiorum dispositione, ad *Stilbum* referri possent.

21. **Isaria exigua** (Brond.) Sacc. *Coniocephalum* Brond. Rec. Crypt. 7927
Agen. I, pag. 17, t. IV, f. 4-5. — Subrotunda vel ovoidea, primo alba, demum ærugineo-cinerea pulverulenta; stipite rufo, exili, cylindraceo, capitulum subæquante.

Hab. in stercore columbino, Agen Galliæ.

Sect. 2. Phragmosporæ Sacc.

ARTHROSPORIUM Sacc. Syll. IV, p. 598.

1. **Arthrosporium parasiticum** Winter in Hedwigia 1886, pag. 103. 7928
— Cæspitulis sparsis, laxis, plerumque ex individuis parcis compositis, minutis, ½-2 mm. latis, interdum autem confluentibus et majoribus, ochraceis; stipitibus erectis, simplicibus vel apicem versus furcatis, fulvis, 450-700 μ. longis, subteretibus, sursum dilatatis, ex hyphis dense coalitis, parallele stipatis, apicem versus divergentibus et conidia gerentibus, compositis; conidiis copiosis, fusiformibus, deorsum in stipitem tenuem attenuatis, sursum acutatis, triseptatis, dilutissime ochraceis, 33-44 μ. (cum stipite) longis, 5-7 μ. crassis.

Hab. parasitice in Meliola inermi in foliis vivis ignotis in insula S. Thomè Afr. occ.

ATRACTIUM Link — Sacc. Syll. IV, p. 599.

1. **Atractium? cronartioides** Speg. F. Guar. nonn. n. 161. — Maculis 7929

amphigenis, determinatis, irregulariter repando-orbicularibus vel confluendo difformibus, arescentibus, superne cinereo-albis, inferne pallide avellaneis; stipitibus hypophyllis, in maculis laxissime aggregatis, fusco-olivaceis, erectis v. arcuatulis, 0,5-1 mm. alt., 50-100 μ. cr., cylindraceis, basin versus leniter incrassatulis, apice non v. vix attenuatis ac subpallescentibus ex hyphis tenuibus, 2-4 μ. cr., chlorino-olivascentibus dense fasciculatis, efformatis; conidiis cylindraceis, rectis v. vix flexuosis, utrinque obtusiusculis, 40-60 ≃ 4-5, continuis v. sæpius 3-septatis, non constrictis, levibus, chlorinis, pellucidis.

Hab. ad folia languida Bignoniaceæ cujusdam pr. Calle-pot pr. Yaguaron Brasiliæ.

SYMPHYOSIRA Preuss — Sacc. Syll. IV, p. 600.

1. **Symphyosira alba** Karst. in Hedw. 1891, p. 300. — Stromatibus 7930
sparsis v. subgregariis, carnosulis, stipitato-clavatis, glabris, capitulo sphæroideo v. lentiformi, albo, 0,1-0,2 mm. diam. stipite capitulo breviore lutescente; conidiis cylindraceis utroque apice obtusissimis, rectis, concatenatis, pluriguttulatis, hyalinis, usque 36 ≃ 3.

Hab. ad lignum Pini (?) vetustum in agro mustialensi Fenniæ. — Forte var. *Symph. luteæ.*

Ser. 2. **Phæostilbeæ** Sacc.

Sect. 1. **Amerosporæ** Sacc.

SPOROCYBE Fr. em. — Sacc. Syll. IV, p. 604.

1. **Sporocybe Robiniæ** (Schw.) Fr. S. M. III, pag. 342, *Periconia* 7931
Schw. Carol. p, 125. — Cinerea, 12 mm. long.; stipite crasso compresso, rigido, nigricante, sæpe furcato; capitulo inæquali, farinaceo.

Hab. ad ramos dejectos Robiniæ, Carolina Amer. bor.

2. **Sporocybe carnea** Rich. Cat. champ. Marn. n. 2088. — Stipite 7932
ex hyphis coalitis, septatis, carneis efformato; capitulo sphærico, compacto; conidiis ellipsoideis, roseis.

Hab. in asseribus querneis vetustis, St. Amand Galliæ. — «Species a typo generis colore desciscit».

3. **Sporocybe Persicæ** (Schw.) Fr. S. M. III, p. 342, *Periconia* 7933
Schw. Car. p. 125. — Mycelio nullo stipite subbulboso, incurvo, nigro; capitulo ovato-globoso, compacto.

Hab ad truncos et ramos emortuos Persicarum, quos fere

spinulosos reddit, Amer. bor. — Verisimiliter status junior *Cornulariæ Persicæ*. In n. 44 Ellis N. A. Fung. (*Sp. Persicæ*) conidia non vidi.

4. **Sporocybe Resinæ** Fr. S. M. III, p. 341. — Atra, mycelio effuso, floccoso; capitulo rotundato, inæquali; stipite æquali, simplici; conidiis seriatis. 7934

Hab. ad truncos resinosos Abietis excelsæ in Suecia. — Passim fungilli 2-3 coalescunt et *Calicii* speciem imitantur.

5. **Sporocybe antarctica** Speg. F. Pat. n. 189. — Stromatibus sparsis v. hinc inde plus minusve dense gregariis matrice dealbata insidentibus, atris stipite setaceo, recto v. subflexuoso, cylindraceo, 2 mm. alt. 100–150 μ. crass. inferne non v. vix incrassatulo, superne abrupte in capitulum subglobosum v. subhemisphæricum, vix pallidius expanso, contextu prosenchymatico subindistincto olivaceo; conidiis globosis, minutis, 2-3 μ. diam., grosse 1-guttulatis olivaceis. 7935

Hab. vulgatissima ad truncos decorticatos cariosos Fagi antarcticæ prope Cabo Negro, P. Arenas, Voces bay Patagoniæ.

6. **Sporocybe cellaris** Peck 42 Rep. p. 33. — Stipitibus 1-1,7 mm. long., cylindraceis v. e basi subbulbosa v. incrassata attenuatis, rectis, atro-brunneis, ex hyphis dense compactis, capitulo stipite crassiore, fulvo-brunneis; conidiis numerosissimis, globosis, coloratis, 5-6,5 μ. diam. 7936

Hab. in doliis in cella vinaria, Flatbush Amer. bor. (Zabriskie).

7. **Sporocybe Lycopersici** Plowr. Fung. Dis. Tom. p. 3. f. 4. — Minuta, sphærica, 150 μ. diam., concentrice seriata, capitulo conidiorum sordide carneo; conidiis minutis, cylindraceis v. suballantoideis, hyalinis, guttatis vel eguttulatis, 10 × 2-3. 7937

Hab. in fructibus Solani Lycopersici, Clenehwarton, King's Lynn Britanniæ.

8. **Sporocybe graminea** Karst. Rev. Myc. 1888. — Sparsa vel subgregaria, atra, circiter 0,5 mm. alta; stipite cylindraceo, gracillimo, stricto; capitulo obovoideo vel subsphæroideo; conidiis ellipsoideo-sphæroideis vel subsphæroideis levibus, fuligineis (sub lente), uniguttulatis, 15 × 12 vel 13 μ. diam. 7938

Hab. in foliis culmisque siccis graminum prope Mustiala Fenniæ.

GRAPHIUM Corda — Sacc. Syll. IV, p. 609.

1. **Graphium squarrosum** Ell. et Langl. Journ. Mycol. 1890, p. 36. — 7939

Cinereum; stipite 0,7-1 mm, 20 μ. cr., erecto, stricto e fibris arcte fasciculatis composito, extremitatibus liberis dense spiculiferis, subrectangulariter divaricatis, 8-12 ≃ 2-2,5, rectis v. curvis, acutis, apice denticulato obtusulo; conidiis ovato-oblongis, hyalinis, continuis, 5-7 ≃ 2-2,5.

Hab. in ramis emortuis Sambuci, St. Martinsville La. Amer. bor. (Langlois). Occurrunt et conidia majora 10-11 μ. long. 2-3-nucleata, forte heterogenea.

2. **Graphium? fuegianum** Speg. F. Fueg. n. 454. — Stipitibus densiuscule gregariis sæpe cæspitulosis ac basi confluentibus, cylindraceis 0,5-1,5 mm. alt., 50-60 μ. crass., atris, basi non v. vix incrassatis, apice penicillato-expansis, contextu fibroso-fasciculato fuligineo; hyphis capitulis gracilibus, dense septulato-coarctatulis, flexuosulis, ramulosis, apice liberis; conidiis cylindraceis v. ellipticis, utrinque obtusissimis, 2 ≃ 1 ac minute 1-guttulatis, hyalinis vel subfumosis, an catenulatis. 7940

Hab. ad lignum denudatum putrescens Mayteni magellanicæ prope Ushuvaia Fuegiæ.

3. **Graphium verticillioides** Speg. Guar. I, p. 171. — Dense gregarium, 1-2 ≃ 0,3-0,4 mm. rectum, apice simplex rarius subramuloso-fissum, coriaceum, basi glabrum, fusco-atrum, sursum ob hyphas puberulum, sordide rubiginosum; hyphis liberis, ramoso-intricatis, sæpe 2-3-subverticillato-ramulosis; conidiis ellipsoideis, 4-5 ≃ 2-5, utrinque acutiuscule rotundatis, hyalinis, non concatenatis, adnato-pleurogenis. 7941

Hab. ad ramenta lignea putrescentia in silva pr. Guarapi Brasiliæ.

4. **Graphium giganteum** Speg. Guar. I, p. 172. — Subfasciculato-gregarium, sæpe basi confluens, 5-10 mm. alt., 0,2-0,5 mm. diam., erectum, rectum, subcylindraceum, simplex, apice subcapitulato-incrassatulum vel laciniato-ramulosum, deorsum atrum, glabrum, apice ob hyphas 50-60 × 3, dense intricato-ramulosas, puberulum; conidiis non catenulatis, ellipsoideis v. ovoideis, 4-6 ≃ 2-2,5, rectis vel vix inæquilateralibus, utrinque obtusiusculis, hyalinis. 7942

Hab. ad corticem truncorum putrescentium prope Guarapi Brasiliæ.

5. **Graphium rhizophilum** Pat. Bull. Soc. Myc. 1888, p. 126. t. XX, f. 8. — Capitulo globoso, albo, sicco griseo, stipite cylindraceo v. ampulliformi-incrassato, nigro, fibrilloso fulto; conidiis hyalinis, ovoideis minutissimis. 7943

Hab. in radicibus vivis, Puerto Zamuro Venezuelæ. — Fungus 1-2 mm. alt.

6. **Graphium calicioides** (Berk.) Cooke et Mass. Grev. XVI, pag. 11, 7944
Periconia Berk. ex p. — Conidiis hyalinis, subellipticis, minutis, 3-4 = 2.

Hab. in ligno putri, Kew et Glamis Britanniæ.

7. **Graphium Sorbi** Peck 40 Rep. p. 65. — Maculis sæpius parvis, 7945
2-4 mm. lat., orbicularibus, definitis, rubro-brunneis; stipitibus hypophyllis, validiusculis, æqualibus vel sursum attenuatis; hyphis apice divaricatis et hyalinis; conidiis oblongis, hyalinis, 20-25 = 6-20, interdum minute 1-2-guttulatis.

Hab. in foliis Piri americanæ, Adirondack Amer. bor.

8. **Graphium leguminum** Cooke Grev. XVI, p. 71. — Stipitibus gre- 7946
gariis, rigidis, erectis, tenuibus, atris 1 mm. long., ex hyphis septatis, atro-fuscis compositis; capitulo conidiorum subelliptico; conidiis clavatis, superne rotundatis, inferne truncatis 20-25 = 6, hyalinis.

Hab. in leguminibus Rhynchosiæ in Carolina inf. Amer. bor. (Ravenel).

9. **Graphium graminum** Cooke et Mass. Grev. XVI, p. 11. — Spar- 7947
sum, minutum, griseum; stipite erecto, ex hyphis delicatis, septatis, hyalinis (seorsim visis); conidiis ellipsoideis, continuis, hyalinis, 6 = 3-4.

Hab. in foliis culmisque emortuis Gynerii argentei, Kew London Brit.

HARPOGRAPHIUM Sacc. Syll. IV, p. 619.

1. **Harpographium quaternarium** Cooke et Mass. Grev. XVI, pag. 3. 7948
— Cæspitulis atris, minutis; stipitibus compositis, sursum subclavatis, deorsum subfasciculatis, olivaceis; hyphis septatis, ad apicem leniter incrassatis, subquadri-spiculatis; conidiis fusiformibus continuis, hyalinis, 12 = 2-3 spiculis tenuissimis, 10-15 μ. longis; conidiis plerumque quaternatis.

Hab. in ramis Passifloræ, Brisbane Australiæ (Bailey).

2. **Harpographium corynelioides** Cooke et Mass. Grev. XVI, p. 16. 7949
— Cæspitosum, erumpens, atrum (*Coryneliam* simulans) stipitibus compositis, radiantibus, ad basim connatis, sursum clavatis vel subulatis, simplicibus vel furcatis 2-3 mm. long.; cæspitulis 1 cm. long., 5 mm. lat.; hyphis deorsum dichotomis, fuligineis, sursum

ramosissimis, hyalinis, septatis; conidiis cylindraceis, curvulis (allantoideis) nucleatis, hyalinis, 12 ≃ 3.

Hab. in ramis Leptospermi juniperini, Port Phillip Australiæ (Hamilton), Harkaway Range (C. French).

3. **Harpographium graminum** Cooke et Mass. Grev. XVI, p. 81 (ex errore sub *Haplographyo*). Sparsum, minutum, subsolitarium; hyphis fertilibus palide olivaceis septatis, in fasciculum stipitiformem connexis sursum relaxatis; conidiis fusiformibus, 2-nucleatis, hyalinis, 12 ≃ 5. 7950

Hab. in graminibus (stramen efficientibus), Hampstead Britanniæ.

STEMMARIA Preuss Fungi Hoyersw. n. 128 (Etym. *stemma* mitra). — Stipes erectus, compositus, carnosus, supra scopulato-ramulosus, non septatus, capitulum formans. Conidia concatenata, simplicia, floccos moniliformes, apicibus ramorum insertos formantia.

1. **Stemmaria globosa** Preuss Hoyersw. loc. cit. et in Sturm Crypt. Fl. III, tab. 67. — Stipite erecto, supra scopulato, ramoso, fusco; capitulo rotundato candido, floccis conidiorum simplicibus v. ramosis tecto; conidiis ovatis minutis. 7951

Hab. in foliis Pini silvestris delapsis, prope Hoyerswerda (Pinka) Silesiæ.

STYSANUS Corda — Sacc. Syll. IV, p. 690.

1. **Stysanus setaceus** Pass. in Martelli Flor. Bog. p. 149. — Gregarius, fuscus; stipitibus e basi bulboso-incrassata, sensim attenuatis, 250-400 μ. longis, ex hyphis filiformibus, 2,5 μ. crassis, continuis, fuligineis formatis; conidiis..... 7952

Hab. in ramis putrescentibus Acaciæ pr. Keren Abyssiniæ.

2. **Stysanus Calicium** Speg. F. Puigg. n. 470. — Laxe gregarius, superficialis, ater; stipitibus erectis teretibus atris, 1–2 mm. long., 100-150 μ. cr. levibus; capitulo subgloboso subpulverulento atro-olivaceo 200-250 μ. diam.; conidiis globosis minutis obscure olivaceis, levibus, 4-5 μ. diam. 7953

Hab. ad palos decorticatos putrescentes late dealbatos in hortis prope Apiahy Brasiliæ. — Species statum conidicum *Calicii peraffinis* Speg. sistens. An huc *Sporocybe calycioides* Fr.?

3. **Stysanus ramifer** Roll. Bull. Soc. myc. 1890, VI, pag. 106 cum icone. — Subsparsus, niger, usque ad 3 mm. alt.; hyphis 2,5 μ. cr., septatis, olivaceo-fuscis, basi in stipitem coalitis, sursum in 7954

ramos et altius in ramulos conidiorum tot paniculas gerentes, disjunctis; capitulis plerumque lanceolatis; conidiis catenulatis, ovoideis, subangulosis, plus minus oblongis, circ. 7,5 ≃ 5, olivaceo-griseis.

Hab. in trunco Salicis prope Montmorency Galliæ.

4. **Stysanus bulbosus** Sorok. Mikol. izsledav. p. 31, tav. VI, f. 9–12. 7955
— Gregarius; stipite 60-80 μ. long., basi bulboso-incrassato et 16-20 μ. circ. diam., apice attenuato, 8-10 μ. cr.; conidiis in catenulas radiantes, stipitis apice insidentes dispositis, 4 ≃ 2, subhyalinis.

Hab. in fragmentis semiputridis ligneis Pini in Rossia.

5. **Stysanus pallescens** Fuck. Symb. myc. p. 102. — Cæspitulis laxis in macula expallescenti; stipitibus crassiusculis, albidis, minutis ex hyphis dense congestis formatis; conidiis oblongo-ovatis, simplicibus, 12 ≃ 6, hyalinis in hypharum curvatarum apice insertis et totum fere stipitem tegentibus. 7956

Hab. in foliis vivis Stellarum nemorum, Œstricher Wald Rhenogoviæ. — Status conidicus *Sphærellæ isariphoræ*. «An potius *Graphiothecii* sp.?»

6. **Stysanus capitatus** Reinke et Berth. Zersetz. Kertoff. p. 51, t. VI. 7957
— Solitarius, griseo-brunneus; stipite subcylindraceo, simplici vel apice fisso, ex hyphis filiformibus septatis compacto, sursum capitulo subgloboso terminato; conidiis ellipsoideis utrinque rotundatis, 6 ≃ 3.

Hab. in tuberibus Solani tuberosi vetustis, Germania.

7. **Stysanus Stemonites** (Pers.) Corda — Sacc. Syll. IV, p. 621 — 7958
var. **fimetarius** Karst. Symb. XIX, p. 93. — Stipitibus simplicibus, rarissime ramosis, sparsis vel gregariis, setuliformibus, teretibus, strictis vel leniter flexuosis, gracillimis, nigrescentibus, circ. 120 ≃ 30; capitulo elongato-cylindraceo, primitus pallescente; hyphis sterilibus ramosis, articulatis, dilutissime fuligineis, parcis, circ. 6 μ. cr.; conidiis ovoideis vel subglobosis, e glaucescente dilute fuligineis, semipellucidis, subverrucosis, 6-8 ≃ 4-5.

Hab. in stercore Arvicolæ agrestis pr. Mustiala Fenniæ.

GRAPHIOTHECIUM Fuck. — Sacc. Syll. IV, p. 624.

1. **Graphiothecium maculicolum** Karst. Hedw. 1889. — Stromatibus 7959
macula expallescente subgregatim insidentibus, simplicibus, gracili-subulatis, erectis, strictis, basi perithecioideo-incrassatis, atris, sur-

sum cylindraceis, pallidis vel demum fuligineo-pallidis, 4-5 mm. long., 15-30 μ. cr.; conidiis non visis

Hab. in foliis languidis et emortuis Magnoliæ? in Minas Lafayette Brasiliæ.

BASIDIELLA Cooke in Grev. VI, p. 118 et Some Moulds p. 1 (Etym. a *basidio*). — Stipites ex hyphis paucis compositi, fusci, clavati apice capitato-conidiophori. Hyphæ clavatæ, superne basidiis minutis ornatæ. Conidia capitato-congesta, globosa, asperula, fuliginea.

1. **Basidiella sphærocarpa** Cooke in Grev. ~~IV~~ VI, p. 118 et Some Moulds pag. 1, t. IX, f. 1. — Stipitibus brevibus, ex hyphis tribus v. amplius, parce coalitis, compositis, fuligineis; hyphis sursum clavatis, continuis, basidiis acicularibus præditis, $^1/_{10}$ mm. altis, 30 μ. latis, basi attenuatis, 5 μ. diam., mycelio repente, brunneo insertis; conidiis in capitulum globosum congestis, sphæroideis, episporio verruculoso, 4 μ. diam. fuscis. 7960

Hab. in ligno emortuo putri Gloriosæ superbæ, Madras Indiæ.

BRIOSIA Cav. Bitt. Rot. pag. 31, t. V, f, 1-3 (Etym. a cl. prof. G. Briosi direct. Horti Papiensis). — Stroma verticale, cylindraceum, stipitatum, hyphis fasciculatis compositum, apice capitulum compactum efformans; conidia globosa, typice catenulata, fusca, acrogena. — Quoad affinitates cfr. Cav. loc. cit.

1. **Briosia ampelophaga** Cav. loc. cit. — Stipibus elongato-cylindraceis, basi leviter dilatatis, albidis; capitulo compacto globoso vel subhemisphærico, ochraceo; sporophoris simplicibus, parce septatis, articulis constrictis; conidiis globosis, acrogenis, catenulatis, 4-5 μ. diam., brunneis. 7961

Hab. ad baccas Vitis viniferæ, Stradella in agro ticinensi Ital. bor.

ANTROMYCES Fres. — Sacc. Syll. IV, p. 626.

1. **Antromyces Copridis** Fres., Syll. IV, p. 626 — Sec. cl. Boudier Champ. nouv. p. 8, t. XVI [ubi species fuse descripta] conidia sunt diu continua, dein (matura) uniseptata, granuloso-nubilosa, pallide fuscescentia, 13-20 * 5-8. Nascitur quoque in folliculis Copridis lunaris in Gallia merid.

Sect. 2. Didymosporæ Sacc.

DIDYMOBOTRYUM Sacc. Syll. IV, p. 626.

1. **Didymobotryum atrum** Pat. Journ. Bot. 1891, p. 320. — Filiforme, 7962
sparsum, 0,5–1 mm. alt.; stipite recto, cylindraceo, circ. 20 μ. cr., ex hyphis gracilibus, septatis, brunneis, 2-3 μ. cr., subparallelis efformato; capitulo subgloboso, ex hyphis brunneis, confertis composito; conidiis brunneis, elongatis, cylindraceis, utrinque rotundatis, 1-septatis, plus minus constrictis, 16-18 ≃ 6.

Hab. in ligno putri, Ke So Tonkin Asiæ orient.

Sect. 3. Phragmosporæ Sacc.

PODOSPORIUM Schw. — Sacc. Syll. IV, p. 627.

1. **Podosporium Penicillium** Speg. F. Puigg. n. 471, *Meliola penicil-* 7963
lata Speg. Pug. Arg. n. IV, n. 117. — Stipitibus atris sparsis v. laxe hinc inde gregariis erectis 300-400 ≃ 25, teretibus rigidulis apice abrupte penicillatim ramoso-expansis, e fibris gracilibus 5 μ. cr. arcte coalitis, fuligineis, parce septulatis levibus apice liberis p. lib. 150-160 μ. long., verruculoso-scabris, monosporis efformatis; conidiis in fibris penicillorum acrogenis, cylindraceo-fusoideis 25-30 ▪ 4-5 sursum obtusiuscule attenuatis deorsum elongatulis, triseptatis, pallide fuligineis.

Hab. in mycelio Meliolæ calvæ Speg. parasitans ad folia Laurineæ cujusdam, Apiahy Brasiliæ.

2. **Podosporium penicillioides** Karst. et Roum. Rev. Myc. 1890. — 7964
Stipitibus erectis, atris, teretibus, rigidulis, apice abrupte penicillatim ramoso-expansis, ex hyphis gracilibus arcte coalitis fuligineis parce articulatis levibus apice liberis undulatis monosporis efformatis, circiter 200 ≃ 20-30; conidiis acrogenis in hyphis penicillorum fusoideo- vel clavulato-cylindraceis, 2–5, vulgo 4-septatis, dilute fuligineis, ad septa non constrictis, 50-75 ≃ 9-10.

Hab. in mycelio Meliolæ ad folia Fici cujusdam in Tu-Phap. — A *Podosporio Penicillio* Speg. conidiis majoribus aliisque notis diversum. Statum conidicum forte sistit *Meliolæ*.

3. **Podosporium aciculare** Sacc. et Paol. Fung. Malac. p. 28, t. III, 7965
f. 9. — Effusum, atrum, setosum; fasciculis hypharum subulatis, 2-4 mm. longis, dense gregariis et subinde 3-4 apice confluentibus; hyphis filiformibus, septulatis, 4–5 μ. diam., basi subliberis,

sursum coalitis, fuligineis, apice emergente sursum reflexo, pallidiore; conidiis hyphis emergentibus insertis, fusoideis, 35-70 × 12-15, crasse tunicatis, 7-9-septatis, non constrictis, fuligineis.

Hab. in culmis Bambusæ? emortuis, Malacca (Scortechini). — A *Pod. rigido* et *Pod. grandi* differt præcipue stipitibus brevioribus, a *Pod. Spegazziniano* conidiis fusoideis, utrinque acutiusculis etc.

ISARIOPSIS Fresenius — Sacc. Syll. IV, p. 630.

1. **Isariopsis subulata** Ellis et Ev. in Journ. of Myc. 1886, p. 104. — Stipitibus subulatis, 1-1,5 mm. altis, sursum attenuatis et pallidius coloratis, ex hyphis arcte compactis, brunneis compositis, basi subbulbosis strigosisque conidia plerumque binucleata, hyalina, ovata, 7-8 × 4 ferentibus. 7966

Hab. in culmis putrescentibus Zeæ Maydis, Louisiana in America bor. (Langlois).

2. **Isariopsis Acanthacearum** Cooke Grev. XIX, p. 8. — Hypophylla, cæspites minutos compactiusculos semiorbiculares, cinereos dein fuligineo-atros formans; hyphis tenuibus, septatis, flexuosis, intertextis, brunneis; conidiis fusoideis, 3-septatis, hyalinis, 20-22 × 5. 7967

Hab. in foliis Eranthemi, Bristol (Dewar) et Dædalacanthi nervosi, Exeter (E. Parfitt) Britanniæ.

3. **Isariopsis Stellariæ** Trail Trans. Crypt. Scot. 1889, p. 49. — Alba; maculis indefinitis, supra pallidioribus, siccis stramineis; cæspitulis hypophyllis; hyphis suberectis, gracilibus, apice subincrassatis; conidiis ellipsoideis vel subcylindraceis, utrinque rotundatis, 10-16 × 5-6, semper continuis, hyphis isthmo angusto insertis. 7968

Hab. in foliis Stellariæ gramineæ, Cladich pr. Loch Awe Scotiæ. — *Is. albo-rosellæ* affinis. — «Verisimiliter non diversa a *Stysano pallescente*».

Fam. 4. **Tuberculariæ** Ehrenb. emend.

Ser. 1. **Tuberculariæ mucedineæ** Sacc.

Sect. 1. Amerosporæ Sacc.

TUBERCULARIA Tode — Sacc. Syll. IV, p. 638 *).

1. **Tubercularia antarctica** Speg. F. Fueg. n. 445. — Sporodochiis 7969

*) Cfr. G. Paoletti Rev. gen. Tuberc. cum 2 tab. Padova 1887, ubi plures

primo tectis, dein per peridermium erumpenti-exsertulis, tuberculoso-difformibus, 0,5-1,5 mm. diam., levibus, glabris, pallide testaceo-carneis; conidiis ellipticis, utrinque plus minus rotundatis, 5-7 = 3-4 ac sæpe 1-guttulatis, hyalinis.

Hab. ad ramos emortuos Berberidis ilicifoliæ in Staten island Fuegiæ.

2. **Tubercularia rhodophila** Passer. Diagn. F. N. V, n. 52. — Sporodochiis erumpentibus, subglobosis, nigris, opacis; sporophoris filiformibus simplicibus, longissimis; conidiis acrogenis, fusiformibus, hyalinis, 5-7,5 = 1,5. 7970

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species recte delentur v. reformantur. Sec. cl. auctorem species magis typicæ et vulgatiores ita distinguuntur:

A. Conidia acro-pleurogena.

† Conidia utrinque obtusa, enucleata.

§ Sporodochia stipite brevi immerso v. nullo.

T. vulgaris. Sporophora ramis omnibus conidio æquilongis v. brevioribus.
T. confluens. Sporophora ramis uno vel pluribus conidio multo longioribus.

§§ Sporodochia stipite elongato emerso suffulta.

* Stroma rubrum.

T. granulata. Sporophora ramis uno vel pluribus conidio multo longioribus 90-150 μ. longa.
f. *major.* Sporophora ut in typo sed 210-240 μ. longa.
T. Coryli. Sporophora ramis omnibus conidio æquilongis.

** Stroma luteum v. albidum.

T. Rhamni. Sporophora ramis omnibus conidio æquilongis; sporodochia stipite matricis cortice omnino obtecto basique non incrassato.
T. sarmentorum. Sporophora ramis omnibus conidio æquilongis; sporodochia stipite nudo basique incrassato.
T. minor. Sporophora ramis pluribus valde elongatis.

†† Conidia utrinque subacuta, uninucleata.

T. pinophila.

B. Conidia tantum acrogena.

T. versicolor. Sporophora apice papillâ sporigerâ inctructa; sporodochia tenerrima, fragilia, numquam nigra.
T. Libertiana. Sporophora papillâ carentia; sporodochia dura, non fragilia, nigricantia.

Hab. in ramis siccis Rosæ cultæ, sociâ *Diplodiâ rhodophilâ*, Parma Ital. bor.

3. **Tubercularia Calycanthi** Passer. Diagn. F. N. V, n. 51. — Sporo- 7971
dochiis subglobosis, sparsis, erumpentibus, aurantiacis; sporophoris filiformibus, tenuissimis, 80 μ. et ultra long.; conidiis cylindricis, 5-7,5 ≃ 1-1,5.

Hab. in ramis emortuis Calycanthi præcocis, Parma Italiæ borealis.

4. **Tubercularia Rhamni** Paoletti Rev. Tuberc. p. 10, t. III, fig. 1-5. 7972
— Sporodochiis solitariis, cinnabarinis, sursum capitatis, ciliis destitutis, stipite plus minus elongato, cylindraceo, basi non incrassato et omnino matricis cortice arcte obtecto suffultis; stromate luteolo; sporophoris ramis omnibus conidio æquilongis, rectiusculis, 150-160 ≃ 2,5; conidiis ovoideis v. sæpius tereti-oblongis, utrinque obtusis, eguttatis, rectis v. leniter curvulis, 6-7 ≃ 2-3.

Hab. in ramulis Rhamni Alaterni in Gallia (Roumeguère),

5. **Tubercularia cactophila** Speg. F. Guar. II, n. 197. — Sporodochiis 7973
primo epidermide tectis, dein erumpenti-subsuperficialibus e globoso subhemisphæricis, minutis, 250-500 μ. diam., densiuscule gregariis sæpeque confluentibus, compactiusculis, roseis; sporophoris in sporodochio carnoso coalitis, apice longiuscule fusiformi liberis, 15-20 ≃ 2, acutiusculis, hyalinis; conidiis ellipticis v. subovoideis, utrinque acutiuscule rotundatis, 4-6 ≃ 3-4, rectis v. subinæquilateralibus hyalinis.

Hab. ad corticem putrescentem Cerei arborei cujusdam in silvis pr. Paraguarì Brasiliæ.

6. **Tubercularia? leptosperma** Speg. F. Guar. II, n. 198. — Sporodo- 7974
chiis obovatis v. piriformibus, sæpe basi substipitatis, dense gregariis sæpiusque confluentibus, pulvinulos majusculos, 1-3 mm. long., 1 mm. lat., crassiusculos, irregulares e rimulis corticis erumpentes efficientibus, sordide obscureque carneis; sporophoris dense constipato-coalescentibus, 60 ≃ 1, vix apice acutiusculo liberis, pallide rufescentibus; conidiis fusoideo-subcylindraceis, utrinque acutiusculis, 10-12 ≃ 1-1,5, rectis, arcuatis vel sigmoideis, continuis, hyalinis.

Hab. ad corticem ramorum putrescentium Psidii pomiferi in cultis pr. Guarapì Brasiliæ.

7. **Tubercularia Ligustri** Cooke Grev. XVI, p. 49. — Sporodochiis 7975
minutis, convexis, erumpentibus, mox nigris et centro depressis, subsessilibus; sporophoris brevibus, tenuibus, apparenter simplicibus,

Hab. in ramis Ligustri, Kew Britanniæ.

8. **Tubercularia Coryli** Paol. Rev. Tuberc. p. 10, t. IV, f. 24-29. — 7976
Sporodochiis solitariis v. sæpius omnino connatis v. subinde stipitibus tantum discretis, rubentibus, margine ciliis destitutis, stipite elongato, emerso, cylindraceo, albido, cortice non obtecto suffultis; stromate rubro; sporophoris ramis omnibus conidiis æquilongis, 200-220 ≃ 2,5-3; conidiis ovoideis vel sæpius tereti-oblongis, utrinque obtusis, eguttatis, rectis vel leniter curvulis, 5,5-7 ≃ 2-3.

Hab. in ramis emortuis Coryli Avellanæ in agro veneto (Saccardo).

9. **Tubercularia Libertiana** Paoletti Rev. Tuberc. p. 12, t. III, f. 21- 7977
25. — Sporodochiis solitariis, nigris, 0,5 mm. diam., non fragilibus, duris; sporophoris distincte septatis et in articulos cylindraceos facile secedentibus, 40-70 ≃ 2,5, ramis simplicibus, conidia longe superantibus præditis; conidiis papilla basilari carentibus, ovoideis, utrinque rotundatis, sæpius leviter curvulis, 5,5-7 ≃ 2,5.

Hab. in ramis Fraxini et Fagi in Arduennis (Libert). — Ab affini *T. versicolori* sporodochiis non fragilibus, nigris etc. diversa.

10. **Tubercularia atra** Passer. Diagn. F. N. IV, n. 137. — Sporodo- 7978
chiis sparsis, erumpentibus, globuloso-depressis, ligno basi insculptis, extus atris, opacis, intus fuscis; sporophoris fasciculatis, filiformibus, simplicibus, 30-55 μ. long.; conidiis minutis, oblongis, hyalinis, 2,5-3,7 ≃ 1-1,5, ad polos obscure nucleatis.

Hab. in ramulis fracidis Fici Caricæ, Parma Ital. bor.

11. **Tubercularia minor** Link — Syll. IV, p. 639 — f. **Syringæ** Cooke 7979
et Mass. Grev. XVII, p. 80. — Minuta, erumpens, cornicolor, dein carnea vel rubra, micans, uda gelatinosa; stromate maturo mox deciduo; sporophoris simplicibus; conidiis oblongis, rectis, utrinque rotundatis, 10 ≃ 2.

Hab. in ramis Syringæ, Kew Britanniæ.

12. **Tubercularia subpedicellata** Schw. — Syll. IV, p. 645. — Sec. Cooke in Grev. præbet conidia 6-7 ≃ 3-4 et nascitur quoque in ramis Syringæ vulgaris, Kew Britanniæ.

13. **Tubercularia hydnoidea** Rich. Cat. Champ. Marn. n. 2100. — Spo- 7980.
rodochiis nunc globosis vel lobatis, nunc clavato-ramosis, pallide rubris v. roseis; conidiis ellipsoideis, maximis, hyalinis.

Hab. in cortice udo Populi, in silva St. Lumier Galliæ.

14. **Tubercularia guaranitica** Speg. Guar. I, p. 172. — Sporodochio 7981
sub epidermide crustaceo-effuso, eaque hinc inde fissa, suberum-

pente non v. vix pulvinulato, applanato, undulato, difformi, magnitudine maxime ludente, 0,5-5 mm. diam., acute marginato, glabro, pallide aurantio-roseo v. aurantio; sporophoris filiformibus, 15-20 ≃ 1-1,5, cylindraceis, coalescentibus, apice cuneato-attenuatis, acutatis, liberis, hyalinis, monosporis; conidiis ovoideis, rarius ellipticis, 5-6 ≃ 2-2,5, hyalinis.

Hab. ad corticem putrescentem ramorum in silvis pr. Guarapì Brasiliæ.

15. **Tubercularia Léveillei** Berl. et Sacc., *Tubercularia depressa* Lév. 7982
in Ann. Sc. nat. 1863, pag. 298, non *T. depressa* Lév. in Ann. Sc. Nat. 1846. — Sporodochiis erumpentibus, discoideis, applanatis, subtus albis, disco depresso cinnabarino; basidiis stipatis, rectis, brevibus continuis; conidiis ovatis, obtusis, incoloribus, diametro duplo triplove longioribus.

Hab. ad cortices, Acerradero Novæ Granatæ (Lindig). — *Tuberculariam discoideam*, optime evoluta, refert.

16. **Tubercularia paraguaya** Speg. Guar. I, pag. 173. — Sporodochiis 7983
sparsis, innato-erumpentibus, vix pulvinulatis, repando-orbicularibus vel confluendo difformibus, mediocribus, 0,5-1 mm. diam., superne applanatis v. vix convexulis, roseis, margine pallidioribus; sporophoris cylindraceo-clavulatis, 20 ≃ 2,5-3, apice obtuse rotundatis, hyalinis, conidiis e globoso ellipticis, 4-6 ≃ 2,5-4, hyalinis.

Hab. ad corticem putrescentem truncorum in silvis pr. Paraguarì Brasiliæ.

17. **Tubercularia Passerinii** Paol. Rev. Tuberc. p. 13, *Tubercularia* 7984
carnea Pass. in Martelli Flora Bog. p. 150, nec Sacc. ex Corda. — Sparsa, superficialis, carnea, lenticularis; conidiis exiguis, ellipsoideis, $3^1/_2$-4 ≃ $2^1/_2$, plus minus perspicue binucleatis, hyalinis, basidiis tenuibus, longioribus fultis.

Hab. in ..... Keren Abyssiniæ.

18. **Tubercularia Kmetiana** Bäuml. F. Schemn. p. 12. — Sporodochiis 7985
$^1/_4$-$^1/_2$ mm. diam., ex epidermide prorumpentibus, udis gelatinosis, siccis duriusculis, strato conidiorum carneo-cinnabarino, intus albido; sporophoris filiformibus, gracillimis, eximie helicoideis, 100-120 ≃ 1,5, parce ramulosis, ramulis 3-5 ≃ 1, hyalinis; conidiis acrogenis v. ramulorum apicibus insertis, oblongo-cylindraceis, utrinque rotundatis, 8-10 ≃ 2, hyalinis.

Hab. in ramis Lycii barbari, Cista Voda prope Pencow Hungariæ.

19. **Tubercularia Abrotani** Fautr. Rev. Myc. 1891, p. 14. — Sporo- 7986

dochiis minutissimis, cortice nidulantibus; conidiis hyalinis, simplicibus, oblongis, 8-10 ≃ 2-2,5.

Hab. in ramulis siccis Artemisiæ Abrotani, pr. Epoisses, Côte-d'Or Galliæ (F. FAUTREY).

20. **Tubercularia aquifolia** Cooke et Mass. Grev. XVI, p. 45. — Sporodochiis sparsis, innatis, demum erumpentibus, pallide carneis, subsessilibus; sporophoris crassiusculis, furcatis; conidiis anguste ellipsoideis v. allantoideis, obtusis, 12-15 ≃ 2-3. 7987

Hab. in foliis emortuis Ilicis Aquifolii, Highgate Britanniæ.

21. **Tubercularia hirtissima** Peck 32 Rep. pag. 40. — Sporodochiis parvis, 1-2 mm. lat., orbicularibus, depressis, flavis v. pallide aurantiis, longe lanatis; conidiis elongatis, cylindraceis, hyalinis, 20 ≃ 3-3,5. 7988

Hab. in foliis Fraxini sambucifoliæ dejectis, South Corinth Amer. bor.

22. **Tubercularia conorum** Cooke et Mass. Grev. XVI, p. 49. — Sporodochiis sessilibus, lineariter erumpentibus, convexis, sæpe confluentibus, roseis; sporophoris longis, rectis; conidiis allantoideis, obtusis, 8-10 ≃ 2-3. 7989

Hab. in conis Abietis, Carlisle Britanniæ (Doct. CARLYLE).

23. **Tubercularia leguminum** Cooke et Mass. Grev. XVI, p. 33. — Minuta, erumpens, carnea; sporodochiis sessilibus, irregularibus, subconfluentibus; sporophoris brevibus, rectis; conidiis elongato-ellipsoideis, plerumque leniter curvulis, 20 ≃ 5. 7990

Hab. in leguminibus Cassiæ, Brisbane Australiæ (F. M. BAILEY).

24. **Tubercularia carpogena** Peck 43 Rep. p. 31. — Sporodochiis minutis, depressis, glabris, subsuperficialibus, rubris; sporophoris gracilibus, ramosis; conidiis oblongis vel subfusoideis, rectis vel subcurvis, 10-12,5 μ. long., utrinque acuminatis. 7991

Hab. in fructibus Rubi villosi, Menands Amer. bor.

25. **Tubercularia acinorum** Cavara Dissecc. grapp. p. 32, t. V, f. 6-7. — Sporodochiis verruciformibus, sparsis vel confluentibus, albido-ceraceis, erumpentibus, interdum stipitatis; sporophoris simplicibus, filiformibus, fasciculatis, obscure septatis; conidiis cylindraceis, utrinque rotundatis hyalinis, acrogenis 12-15 ≃ 3,5. 7992

Hab. in baccis Vitis viniferæ, Stradella, Voghera Ital. bor.

26. **Tubercularia fungicola** Peck 42 Rep. p. 33. — Sporodochiis minutis, sparsis, subglobosis, 175-350 μ. lat., aurantiacis; conidiis oblongis v. fusoideis, hyalinis, rectis vel subcurvis, 10-15 ≃ 2. 7993

Hab. in Hypoxylo coccineo, Kowersville Amer. bor.

CHÆTOSPERMUM Sacc. nov. gen. (Etym. a *chæte* seta et *sperma* semen, spora). — Sporodochia gelatinosa. Sporophora ramosa. Conidia ovoidea, hyalina, utrinque 7-8-setosa.

1. **Chætospermum tuberculariοides** Sacc. *Tubercularia chætospora* Pat. Bull. Soc. Myc. 1888, p. XL cum ic. — Sporodochiis sessilibus, sparsis v. gregariis 0,5-2 mm. lat., albis, gelatinosis, orbicularibus; sporophoris ramosis, hyalinis; conidiis ovoideis, 38-43 ≃ 8-10, hyalinis, copiose guttulatis, setis 7-8 æquilongis præditis. 7994

Hab. in foliis et caulibus Graminum putridis prope Lons-le-Saulnier, Jura Galliæ.

DENDRODOCHIUM Bon. — Sacc. Syll. IV, p. 650.

1. **Dendrodochium? olivaceum** Passer. Diagn. F. N. IV, p. 138. — Sporodochiis erumpentibus, globosis, solitariis v. 2-pluribus conjunctis, epidermide cinctis, ceraceo-fuscis, opacis; sporophoris e basi parenchymatica oriundis, fasciculatis, brevibus, cylindricis, hyalinis; conidiis acrogenis, ovatis, pallide olivaceis, 5-6 ≃ 2,5. 7995

Hab. in ramulis siccis Poincianæ Gillesii, Parma Ital. bor.

2. **Dendrodochium Padi** Oud. Contr. Mycol. XIII, p. 62, f. 43. — Sporodochiis corticolis, erumpentibus, subolivaceis, semiglobosis vel tantum convexis, sæpe depressis, solitariis vel confluentibus et tunc rugosulis vel inæqualibus; sporophoris valde intricatis, ramosissimis, ramis subverticillatis, in massam pallide flavam, carnosulam coalitis; conidiis numerosissimis, oblongis, hyalinis, continuis, 7 ≃ $2^1/_3$, utrinque rotundatis, granuloso-farctis, eguttatis. 7996

Hab. in ramulis Pruni Padi, Zorgvliet prope Haye Hollandiæ (Destrée).

3. **Dendrodochium Pinastri** Paol. Rev. Tuberc. p. 17, t. III, f. 31-35. — Sporodochiis solitariis, $^1/_4$ mm. diam., luteo-brunneis vel luteis; stromate luteolo; sporophoris hyalinis, filiformibus, continuis, furcatis vel dendroideo-ramosis, 32-37 × 1, ramis indivisis; conidiis tantum acrogenis, hyalinis, tereti-oblongis, utrinque rotundatis, rectiusculis, 3,5-5 ≃ 1. 7997

Hab. in ramis Pini Pinastri in agro veneto Ital. bor. (Saccardo).

4. **Dendrodochium simile** Ell. et Ev. Journ. Myc. 1888, p. 117. — Sporodochiis seriato-erumpentibus, pallide aurantiis, albidis, pulverulentis, 0,5-1 mm. diam. vel confluentibus et 2-3 mm. lat.; spo- 7998

rophoris erectis, ramis adpresse confertis donatis; conidiis oblongis, 2–2,5 ≃ 0,5–0,7.

Hab. in cortice Caryæ oliviformis, Louisiana Amer. bor. (Langlois). — Ab affini *D. densipedi* conidiis minoribus diversum.

5. **Dendrodochium lignorum** Fautr. Rev. Myc. Oct. 1891. — Sporophoris intermixtis, fragilibus, cylindraceis, multiseptatis, fuligineis, apice pallidioribus et breviter 3–4-ramulosis, 200–250 ≃ 8–9; conidiis concoloribus, oblongis, 3–4-septatis, 20–27 ≃ 8–9. 7999

Hab. in ligno decorticato Quercus in silva, Côte-d'Or Galliæ.

6. **Dendrodochium fugax** Bomm. Rouss. Sacc. Contr. Myc. Belg. IV, p. 300. — Sporodochiis gelatinosis, superficialibus, granuliformibus, initio albo-flavidis, dein melleis, dense confertis et passim confluentibus, 90-120 μ. diam.; conidiis copiosissimis, hyalinis, bacillaribus, plerumque rectis, 3-4 ≃ 0,6; basidiis fasciculatis, tortuosis, 30 μ. long., in ramos 2-3 divisis, ramis eamdem altitudinem attingentibus, basidia vel ramulos alternos, breves, inflatos monosporos gerentibus. 8000

Hab. in trunco decorticato et putri Carpini Betuli, Groenendael Belgii.

7. **Dendrodochium gelatinosum** Karst. Symb. XX, p. 108. — Sporodochiis sparsis, superficialibus, pulvinatis vel rotundatis, carnoso-gelatinosis, disco fluxili, totis pallidis, siccis rufescentibus, 1 mm. circ. diam.; sporophoris verticillato-ramosis circ. 2 μ. cr., hyalini; conidiis acrogenis, ellipsoideis vel oblongatis, eguttatis, rectis, hyalinis, 3-6 ≃ 1,5–2,5. 8001

Hab. ad lignum putridum Populi tremulæ pr. Mansikkaniemi par. Tammela Fenniæ.

8. **Dendrodochium betulinum** Rostr. Till Grönl. Svamp. p. 630. — Sporodochiis irregulariter claviformibus, compressis, rufis, 1-2 mm. long. et lat.; conidiis oblongis, minutissimis, 2-3 ≃ 0,5, in sporophoris subverticillato-ramosis acrogenis. 8002

Hab. in truncis Betulæ odoratæ, Nanortalik Groenlandiae (N. Hartz).

9. **Dendrodochium densipes** Sacc. et Ell. Journ. Myc. 1888, pag. 117. — Sporodochiis seriato-erumpentibus, globosis, minutis, dein applanato-pulvinatis, suborbicularibus, margine partim libero cinctis, 1 mm. vel ultra diam., pallide aurantiis, subconfluentibus; sporophoris fasciculatim ramosis, ramis erectis, 20-35 ≃ 1,5; conidiis acrogenis, ovato-acrogenis, hyalinis, circ. 5 ≃ 2,5. 8003

Hab. in cortice Juniperi virginianæ emortuo, Faulkland,

Delaware Amer. bor. (A. COMMONS). — Var. **prolificum** Ell. et Ev. Journ. Myc. 1888, pag. 117: sporophoris evanescentibus; conidiis 5-6 ≃ 2,5, utrinque subacutis. In cortice Salicis, Louisiana Amer. bor. (LANGLOIS).

10. **Dendrodochium ellipticum** Cooke et Mass. Grev. XVI, p. 76. — 8004
Sporodochiis pulvinatis, erumpentibus, oblongis, pallidis, ½-1 mm. long., convexis; basidiis sursum furcatis; conidiis ellipticis, 8 × 5, hyalinis.

Hab. in ligno putrido, Waitaki New Zealand.

11. **Dendrodochium verticillatum** Cooke et Mass. Grev. XVIII, p. 34. 8005
— Sporodochiis pulvinatis, molliusculis, gelatinosis, carneis, erumpentibus, ½-1 mm. diam.; sporophoris repetite verticillato-ramosis; conidiis acrogenis, ovatis, hyalinis, 5 ≃ 2.

Hab. in Liquidambare putri, Carolina austr. Amer. bor. (RAVENEL).

12. **Dendrodochium microsorum** Sacc. Syll. IV, p. 652 — Var. **Phragmitis** Fautr. Rev. Myc. Oct. 1891. — Sporodochiis flavescentibus, superficialibus, discoideis, sparsis vel confluentibus; sporophoris furcatis, longissimis, 80-90 μ. long.; conidiis acro-pleurogenis, cylindraceis, rectis vel subcurvis, 4,5 × 1. 8006

Hab. in culmis Phragmitis communis, Pont-Royal Galliæ (F. FAUTREY).

13. **Dendrodochium subeffusum** Ell. et Gall. Journ. Myc. 1890, p. 33. 8007
— Sporodochiis subeffusis, hinc inde in massas compactas, aurantio-rubras, subapplanatas, 1 mm. circ. diam. dense gregariis; sporophoris subulatis, 25-35 × 2-3, parce ramosis; conidiis acrogenis, solitariis, e subgloboso ovoideis vel ellipsoideis, hyalinis, 1-2-guttatis, 5-8 ≃ 4,5-6.

Hab. in thallo et apotheciis Lichenum frondosorum quibusdam, Farmington, N. York Amer. bor. (E. BROWN).

ENDOCONIDIUM Prill. et Delacr. Bull. Soc. bot. Fr. 1891, p. 116 cum ic. et p. 183-208 (Etym. *endon* intus et *conidium*). — Sporodochia pulvinata, albida. Sporophora hyalina, ramosa. Conidia hyalina, rotundata, in interiore ramulorum subinde generata et mox ex apice exsilientia. — Cl. Cooke Grev. XX, pag. 94, recte comparat hoc genus cum *Bloxamia*, quæ vero excipuli (genuini?) præsentia sat recedere videtur.

1. **Endoconidium temulentum** Pr. et Delacr. loc. cit. — Mycelio hya- 8008
lino, effuso; sporodochiis primo candidis, dein lenissime roseis, 0,5-

1 ≈ 0,5 mm.; sporophoris hyalinis, septatis, guttatis, subtortuosis, 3 μ. cr., 2-3-repetito-ramosis, conidiis e sphærico ovoideis, hyalinis, in interiore ramulorum sporophori catenulatim nascentibus, dein liberis, 2,5 μ. circ. diam.

Hab. in tegumento grani Secalis Cerealis, Miallet Dordogne Galliæ. — Status ascophorus est *Phialea temulenta* Pr. et Delacr. Bull. Soc. Myc. 1892, p. 23.

2. **Endoconidium ampelophilum** Pat. Bull. Soc. Myc. 1891, pag. 183, 8009
t. XI, f. V. — Maculis orbicularibus, subprominulis, 5-6 mm. lat., sub lente vix punctulatis; sporodochiis convexis, dimidiatis, 40-100 μ. diam., primo subepidermicis, dein liberis; sporophoris cylindraceis, basi brevissime stipitato-attenuatis, apice late hiantibus, conidia 4-7 liberantibus, simplicibus, difficile secedentibus; conidiis globosis vel ovoideis, 4-5. μ. diam.

Hab. in baccis Vitis maturis, Æquatoria Amer. centr. — « A *Tuberculina? ampelophila* genesi conidiorum omnino differre mihi videtur ».

TUBERCULINA Sacc. Syll. IV, p. 653. — Genus a nonnullis auctoribus ad *Ustilagineas* spurias relatum. Cfr. Schröt. Pilz. p. 291.

1. **Tuberculina japonica** Speg. in Rev. Myc. 1886, pag. 183. — Spo- 8010
rodochiis parvulis, hemisphærico-applanatis, subpulveraceis, solitariis, sordide fulvescentibus, 300-400 μ. diam., areola parum incrassato-pulvinata, subfulvescente insidentibus; conidiis globosis, crassiuscule tunicatis, levibus, 7-8 μ. diam., fulvescenti-hyalinis, in sterigmatibus filiformibus, rectis, subcoalescentibus, 30 ≈ 1½, olivaceis acrogenis.

Hab. ad folia viva Lycii sinensis in dumetis prope Tokio Japon Asiæ orient.

2. **Tuberculina paraguayensis** Speg. F. Guar. II, n. 41. — Maculis 8011
amphigenis v. hypophyllis, tantum pallescentibus, parvulis; acervulis hypophyllis, laxissimis, aggregatis, subhemisphæricis, minutis, 100-120 μ. diam., parum prominulis, fusco-ferrugineis vel ferrugineo-subpurpurascentibus; conidiis globosis, 10-12 μ. diam., tenui tunicatis, levibus, fusco-subviolascentibus; sporophoris elongato-clavulatis, 25-30 ≈ 7-10, nonnullis sterilibus, apice obtusis, ceteris fertilibus, apice mucronato-acutatis, basi subcoalescentibus, fusco-fuligineis, subopacis. Status microstylosporicus *Cronartii paraguayensis* Speg.

Hab. ad folia viva Barnadesiæ cujusdam in dumetis prope Guarapi Brasiliæ.

3. **Tuberculina Talini** Speg. F. Guar. nonn. n. 72. — Maculis pallescenti-arescentibus, amphigenis, indeterminatis, orbicularibus, 2–10 mm. diam.; sporodochiis amphigenis, centralibus, densiuscule aggregatis, minutis, 250–400 μ. diam., sordide violaceo-purpurascentibus; sporophoris antice liberis, obtuse acutatis, 20 × 4–5, postice coalescentibus; conidiis subglobosis, 7–9 μ. diam., hyalino olivascentibus. 8012

Hab. ad folia viva Talini patentis pr. Posta-cuè Brasiliæ.

4. **Tuberculina africana** Cooke et Mass. XVI, p. 15. — Sporodochiis hemisphæricis vel globoso-depressis, exiguis, purpureo-fuscis; sporophoris crassiusculis, continuis, 3 μ. cr.; conidiis globosis, hyalinis, 3–4 μ. diam. 8013

Hab. circum Æcidium [sporis hexagonis, 17–20 μ. diam. præditum] in Ophiocaulo cissampeloide, Gaboon (E. L. Simmonds).

5. **Tuberculina Pelargonii** Pat. Journ. Bot. 1889, p. 168. — Conidiis ovoideis, hyalinis, levibus, granuloso-farctis, 8-10 × 6, stratum crassum efformantibus. 8014

Hab. parasitica ad Æcidium Pucciniæ granularis in foliis Pelargonii, Yemen Arabiæ.

6. **Tuberculina maxima** Rostr. Ustil. Dan. p. 46. — Late effusa, atro-violacea, plura cm. extensa, compactiuscula; conidiis inæqualiter sphæricis, 10-13 μ. diam., pallide violaceis. 8015

Hab. in Peridermio Klebahni ad Pinum Strobum in Dania.

7. **Tuberculina ovalispora** Pat. Bull. Soc. Myc. 1888, p. 126, t. XX, f. 6. — Sporodochiis gelatinosis, ovoideis v. globosis, rubidis, lucentibus, 0,5-1 mm. diam.; conidiis levibus, hyalinis, ovoideis, pluriguttatis, 8-11 × 5-6. 8016

Hab. in Uredine maculante cum Darluca filo, Caracas Venezuelæ.

ILLOSPORIUM Mart. — Sacc. Syll. IV. p. 656.

1. **Illosporium ampelophagum** Berl. et Sacc. Add. Syll. n. 3655. — Sporodochiis erumpenti-superficialibus, albidis, globoso-pulvinatis vel confluendo elongatis, $^1/_5$–$^1/_4$ mm. diam., ex sporophoris dense intricato-stipatis efformatis; sporophoris tortuosis, ramulosis, septatis, hyalinis, basi subinde per ganglia sporomorpha, ellipsoideo- 8017

inæqualia, 13 ≃ 10, uni-biseptata coalescentibus; conidiis ovato-ellipsoideis, continuis, 7-10 ≃ 4-5, acrogenis, subinde (germinando?) apiculatis.

Hab. in pedunculis et pedicellis languidis Vitis viniferæ ustione solis correptæ, in agro veneto.

2. **Illosporium vagum** Sacc. Myc. Sib. pag. 26, fig. 30. — Sporodochiis erumpentibus, gregariis, epiphyllis, depresso-pulvinatis, brunneolis, vix ½ mm. lat.; hyphis sterilibus nubiloso-hyalinis repentibus, flexuosis, tenuibus, fertilibus congestis, assurgentibus, tortuosis, irregularibus, sursum in conidia obovato-clavulata, curva, basi acuta apiceque oblique acutata, infra medium septata, 15-16 ≃ 7-8, fumoso-hyalina, catenulata abeuntibus. 8018

Hab. in foliis subvivis Violæ unifloræ pr. Minussinsk Sibiriæ (Martianoff). — Conidia ea *Marsoniæ Potentillæ* in memoriam revocant.

3. **Illosporium obscurum** Cooke et Mass. XVI, p. 113. — Sporodochiis subgregariis, orbicularibus, erumpentibus, demum subsuperficialibus, dein secedentibus, minutis, fuligineis; hyphis abbreviatis, dichotomo-ramosis; conidiis acrogenis, solitariis v. 2-3-catenulatis, globosis, hyalinis, 12 μ. diam. 8019

Hab. in foliis Eucalypti Globuli, Melbourne Australiæ (Campbell).

4. **Illosporium lignicolum** Delacr. Bull. Soc. Myc. 1890, pag. 139. — Sporodochiis cinnabarinis, madore tremelloideis, verruciformibus, irregularibus, sparsis v. confluentibus, 1-1,5 mm. lat.; sporophoris ramosis, flexuosis, dense aggregatis, septato-constrictis, 2,5-3 μ. cr., hyalinis, in conidia dilabentibus; conidiis hyalino-flavis, ovato-cylindraceis, primum concatenatis, continuis, demum fatiscentibus, obscure 1-septatis, leniter constrictis, 11 ≃ 5. 8020

Hab. in ligno abietino subputrido, Paris Galliæ.

5. **Illosporium Populi** Oud. Contr. Mycol. XIII, p. 63 (absque diagnosi). 8021

Hab. in ramulis decorticatis Populi sp., Loosduinen Hollandiæ (Destrée).

ÆGERITA Pers. — Sacc. Syll. IV, p. 661.

1. **Ægerita virens** Carm. Grev. XVI, p. 81. — Sparsa, granuliformis, minuta, olivacea, hemisphærica; sporophoris basi fasciculatis radiantibus, crassiusculis, flexuosis, simplicibus v. dichotomis, apice 8022

sæpe clavatis, pallide olivaceis; conidiis acrogenis, globosis, pallide olivaceis, 15 μ. diam.

Hab. in cortice Betulæ, Appin Britanniæ (CARMICHAEL).

2. **Ægerita torulosa** (Bon.) Sacc. Syll. IV, p. 662, teste Karst. Symb. Myc. Fenn. XXIX, p. 106, præbet conidia ex ovoideo sphæroideæ, 10–13 μ. diam., hyphis torulosis, ramosis adnata; et nascitur quoque in ramis salicinis in Fennia. Monente ipso Karst., *Æg. alba* non differret.

FUSICOLLA Bon. — Sacc. Syll. IV, p. 664.

1. **Fusicolla tuberculata** Har. et Karst. Rev. Myc. 1890, p. 80. — 8023
Effusa, confluens, ceraceo-mollissima, carnea, tuberculata, tenuis; sporophoris brevissimis, gracillimis; conidiis elongatis, oblongatis, cylindraceis v. clavatis, sæpe irregularibus, rectis, continuis, guttulatis, hyalinis, 17–30 ≃ 4–6.

Hab. ad ramos Sterculiæ fœtidæ in Ceylon.

2. **Fusicolla incarnata** Cooke et Mass. Grev. XVII, p. 8. — Epiphyl- 8024
la; sporodochiis parvis, gregariis, maculis pallidioribus insidentibus, convexis, carneo-roseis, hinc inde confluentibus, vix 1/4 mm. diam., subgelatinis, interdum sparsis; sporophoris brevissimis deciduis; conidiis cylindraceis, utrinque rotundatis, guttulatis v. granulosis, hyalinis v. rectis, continuis, 16–20 ≃ 4–5.

Hab. in petiolis v. foliis, Brisbane Australiæ (BAILEY).

3. **Fusicolla Pteridis** Karst. Symb. ad Myc. Fenn. XXIII, p. 13, *Fu-* 8025
sidium Pteridis Kalchbr. in Bot. Zeit. 1861, p. 296, Sacc. Syll. IV, p. 31. — Sporodochiis pulvinato-lobatis, subeffusis, gelatinosis, pallescentibus, siccitate fulvescentibus; conidiis fusoideo-elongatis, rectis, hyalinis, continuis, 4–6 ≃ 1–2.

Hab. in pagina inferiore foliorum Pteridis aquilinæ circa Mustiala Fenniæ, sociâ *Phyllachorâ Pteridis* (Reb.) Fuck., cujus forte formam conidiiferam sistit.

HYMENULA Fr. — Sacc. Syll. IV, p. 667.

1. **Hymenula bicolor** Oud. Contr. Flora Myc. Pays-Bas XI, p. 53. — 8026
Sporodochiis suborbicularibus, 1/2–1 mm. diam., cum subiculo arcte connatis, colore primitus albidissimo, postea centro dilute griseo, margine paullum sinuoso, oculo armato explorato plus minus flocculoso; colore griseo portionis centralis, sensim versus peripheriam sese extenuante, e conidiis orto; conidiis exacte sphæricis, 14

μ. diam., minutissime asperulis, in apice basidiorum conico-papilliformium solitariis.

Hab. in ligno Pini udo in Horto Botanico Amsterdam Hollandiæ.

2. **Hymenula microspora** Bäuml. F. Schemn. III, p. 16. — Sporodochiis gregariis, erumpentibus, discoideis v. lenticularibus, miniatis, udis gelatinosis, siccis durisculis; sporophoris densissimis, filiformibus ramosis, 30–40 ≃ 0,5–0,7; conidiis minutissimis, acrogenis, hyalinis, 1,5–2 μ. diam. 8027

Hab. in ramulis emortuis Salicis fragilis prope Schemnitz Hungariæ.

3. **Hymenula stictoidea** Bomm. Rouss. Sacc. Contr. Myc. IV, p, 301. — Sporodochiis stictiformibus, innatis, sparsis, epidermide laciniata cinctis, e carneo dilute ochraceis, 0,3–0,5 mm. diam.; conidiis ellipsoideis, hyalinis, 13–18 ≃ 6, interdum guttulatis; basidiis fasciculatis, filiformibus, longe ramosis, 45–90 μ. long., apice monosporis. 8028

Hab. in pag. inferiori foliorum Buxi sempervirentis, Yvoir, Hastière Belgii. — An st. conidicus *Nævicæ pallidæ?*

4. **Hymenula citrina** Boud. Bull. Soc. Myc. 1891, p. 82, t. V, f. IV. — Sporodochiis sessilibus, 0,5 mm. lat., primo cupuliformibus, dein explanatis, repandis, margine minutissime puberulo cinctis: sporophoris 60 μ. long., ramosis, ramulis 20-25 μ. long.; conidiis cylindraceis, rectis, 16–10 ≃ 2–3, utrinque obtusiusculis et 1-guttatis, hyalinis, coacervatis. 8029

Hab. ad squamas putridas strobilorum Pini silvestris, in silva Montmorency Galliæ.

5. **Hymenula glandicola** Cooke Grev. XVI, pag. 71. — Sporodochiis gregariis, oblongis, pallidis, subgelatinosis; conidiis ellipsoideis, continuis, hyalinis, 8 ≃ 5. 8030

Hab. in glandibus, New York Amer. bor. (Gerard).

6. **Hymenula Urticæ** Har. et Br. Journ. de Bot. 1891, p. 173. — Sporodochiis oblongis, ½–1 mm. long., ⅓–½ mm. lat., sparsis, superficialibus, aurantio-pallidis; basidiis brevibus; conidiis ellipsoideis, aurantio-pallidis (oculo nudo), sub lente hyalinis, guttulato-granulatis, 15–20 ≃ 8. 8031

Hab. ad caules siccos Urticæ dioicæ, Mery-sur-Seine, Aube Galliæ (P. Hariot).

7. **Hymenula vulgaris** Fr. — Sacc. Syll. IV, p. 668 — var. **Brassicæ** Karst. in Hedw. 1891, pag. 299. — Sporodochiis polymorphis, 8032

pallide cœrulescentibus, siccitate nigrescentibus, gelatinosis, mollissimis; conidiis cylindraceis, rectis, 4-5 ≃ 1-1,5.

Hab. in rapis putrescentibus Brassicæ Napi var. Napobrassicæ, Mustiala Fenniæ.

8. **Hymenula microsporella** Karst. in Hedw. 1891, p. 302. — Sporo- 8033
dochiis sæpius elongatis v. oblongatis, gelatinosis, matrici adglutinatis, incarnatis, siccis saturatioribus, usque ad 1 mm. long.; hyphis brevissimis, tenerrimis; conidiis elongatis, rectis, utrinque vix v. leviter attenuatis, 4-5 ≃ 1-1,5.

Hab. in rapis putridis Brassicæ Napi var. Napobrassicæ, Mustiala Fenniæ. — *Hym. rubellæ* affinis.

MYXONEMA Corda Ic. I, p. 10 (Etym. *myxa* mucus). — Sporodochia minuta, læte colorata, subsuperficialia. Hyphæ simplices radiantes, continuæ, fasciculatæ. Conidia globosa copiosa (pleurogena?) muco conglutinata. — Sec. Fr. Summa p. 520, fluxus esset pathologicus arborum, quod ex Cordæana analysi non deducitur.

1. **Myxonema assimile** Corda Ic. I, p. 10, t. II, f. 150. — Sporodo- 8034
chiis minutis, nitidis, aurantio-croceis; hyphis albis; conidiis luteis copiossimis, globosis, perexiguis, 2,3-2,5 μ. diam., gelatina mucosa alba conglutinatis.

Hab. in ligno et cortice arborum emortuarum in Bohemia. — Habitus *Myxosporii crocei.*

TRICHOTHECA Karst. Symb. XX, p. 101 (Etym. *thrix* pilus [sporophorum] et *theca*). — Sporodochia superficialia, plano-pulvinata, ceracea, læte colorata, e sporophoris tenerrimis, densissime stipatis, seriatim multiguttatis, demum conidia ellipsoidea vel sphæroidea, hyalina, continua exserentibus. hypothallo tenuissimo, minute celluloso oriundis.

1. **Trichotheca alba** Karst. loc. cit. — Sporodochiis sparsis, albis, 8035
dein disco lutescentibus, 1-2 mm. diam.; sporophoris filiformibus, rectis, cohærentibus, dilutissime lutescentibus (sub lente) 90-180 ≃ 2; conidiis sphæroideis v. ellipsoideis 2 ≃ 1 v. 1-2 μ. diam.

Hab. in ligno (pineo?) vetusto, Mustiala Fenniæ.

MYROPYXIS Ces. — Sacc. Syll. IV, p. 672.

1. **Myropyxis guttiformis** Karst. in Hedw. 1891, p. 302. — Sporodo- 8036
chiis sparsis superficialibus, adiposis, sphæroideis vel subsphæroideis, hyalinis, 100-200 μ. diam.; sporophoris filiformibus, conti-

nuis, simplicibus, raro ramosis, 0,5 μ. cr.; conidiis copiosissimis, cylindraceis, utrinque obtusis v. subtruncatis, continuis, rectis, hyalinis, circ. 4 ≃ 0,5-1.

Hab. in pagina interiore corticis putris arborum frondosarum, Mustiala Fenniæ.

DIAPHANIUM Fr. — Sacc. Syll. IV, p. 672.

1. **Diaphanium serpens** Karst. Symb. XX, p. 101. — Sporodochiis superficialibus, plus minus elongatis, linearibus, reticulatim confluentibus, gelatinosis, carneo-aurantiacis, 1-2 mm. cr., e conidiis anguloso-sphæroideis, intus granulosis, lutescentibus (sub micr.), conglutinatis, magnis, 10-45 μ. diam. 8037

Hab. in cortice Betulæ pr. oppidum Raumo Fenniæ.

CYLINDROCOLLA Bon. — Sacc. Syll. IV, p. 673.

1. **Cylindrocolla cylindrophora** E. et Ev. in Journ. of Myc. 1886, p. 39. — Cæspitulis (nudis) minutis, 1 mm. diam., vix translucidis (?), gelatinosis, subinde confluentibus et tum 3-4 mm. longis, siccitate dilabentibus; hyphis fasciculatis, erectis, gracilibus, dichotome ramosis, conidia oblongo-cylindracea, hyalina, primo granulosa, demum uniseptata, 20-24 ≃ 5-6, lateraliter gerentibus. 8038

Hab. in superficie inf. asseris pinei, Newfield, New Jersey Amer. bor.

2. **Cylindrocolla quercina** Cooke et Ell. Grev. XVI, p. 25. — Sporodochiis verruciformibus, erumpentibus, aurantiacis; sporophoris dichotomis; conidiis cylindraceis, obtusis, hyalinis, concatenatis, 20 ≃ 3. 8039

Hab. in ramis emortuis Quercus, New Jersey Amer. bor. (Ellis).

3. **Cylindrocolla corticola** Karst. Rev. Myc. 1889. — Sporodochiis dispersis, difformibus, planiusculis, tremelloideis, aurantio-rubris, exiguis, fere punctiformibus; sporophoris ramosis, gracillimis; conidiis cylindraceis, utrinque truncatis, continuis, rectis, hyalinis, 3-6 ≃ 0,5-1. 8040

Hab. supra corticem arborum in Minas Geraes Sitio Brasiliæ (Edw. Wainio).

4. **Cylindrocolla diffluens** E. et E. Journ. Myc. 1887, p. 117. — Sporodochiis carneis, siccis aurantiacis, adpressis, immarginatis, circ. 1 mm. diam., primo subtuberculosis; sporophoris non visis; conidiis oblongis v. cylindraceis, circ. 4-12 ≃ 1,5, hyalinis et continuis, in catenas trichotomas dispositis. 8041

Hab. in caulibus herbaceis emortuis, Scofield, Utah, Amer. bor. (HARKNESS).

5. **Cylindrocolla tenuis** Karst. Symb. mycol. XXIV, p. 18. — Spo- 8042
rodochiis sparsis, difformibus, vulgo elongatis v. oblongatis, planis, tenuissimis, gelatinosis, madore turgescentibus, aurantiacis, circ. 0,5 mm. lat.; sporophoris dichotome ramosis in conidia cylindracea, continua, eguttata, recta, hyalina, 3-10 ≃ 0,5-1, abeuntibus.

Hab. in foliis Graminacearum pr. Mustiala Fenniæ.

6. **Cylindrocolla graminea** Karst. Symb. Mycol. XXIV, p. 18. — Spo- 8043
rodochiis gregariis vel sparsis, sæpius difformibus, orbicularibus, planiusculis, gelatinosis, pallidis, siccis flavidis, 0,5-1 mm. diam.; sporophoris fasciculatis, gracillimis, repetite dichotome ramosis; conidiis cylindraceis, hyalinis, catenulatis, 6-12 ≃ 0,5-1.

Hab. in culmis emortuis Calamagrostidis, Mustiala Fenniæ.

SPHÆRIDIUM Fres. — Sacc. Syll. IV, p. 675.

1. **Sphæridium lacteum** Ell. et Langl. Journ. Myc. 1890, pag. 36. — 8044
Lacteum, minutum, $^1/_4$-$^1/_2$ mm. diam., basi substipitato-contractum; conidiis in catenas dendroideo-ramosas dispositis, ellipsoideis, hyalinis, 5 ≃ 3.

Hab. in caulibus herbaceis, St. Martinsville, Louisiana Americæ borealis.

BIZZOZERIELLA Speg. F. Guar. II, p. 199 (Etym. a sollerte botanico JAC. BIZZOZERO, patav.). — Sporodochia phyllogena, majuscula, carnosula, læticoloria, hypothallo mucedineo, radiante sæpius insidentia, subpileato-dilatata, stipite crasso, cingulo gelatinoso-succineo, conidiifero cincto, suffultis. Conidia minuta, cylindraceo-fusoidea, catenulata (an semper?), in sporophoris filiformibus acrogena. — Genus singulare *Aschersoniæ* Mont. peraffine, a quo recedit peritheciorum defectu: statum conidicum *Hypocrellæ* sistit.

1. **Bizzozeriella phyllogena** Speg. F. Guar. II, n. 199. — Hypophyl- 8045
la; hypothallo tenuissime membranaceo, vix perspicuo, radioso-orbiculato, ex albo hyalino late expanso, 2-5 mm.; sporodochiis centro hypothalli solitariis vel 2-3-aggregatis, subcylindraceo-hemisphæricis, 1-1,5 mm. diam., 1 mm. alt., stipite conoideo, brevissimo crassoque, 500-700 μ. alt., 700-800 μ. cr., basi 250-300 μ. cr., apice in pileum applanato-hemisphæricum, abrupte expanso, donatis, carnosulo-coriaceis, in sicco duris, subfriabilibus, extus albis vel pallescenti-fulvis, intus albis, fibrosulo-compactis; stratu conidiifero

crassiusculo, stipitem atque partem inferam pilei vestiente, 300-350 μ. cr., in sicco subcorneo, in vivo tremelloideo, corniculis longiusculis crassiusculisque, simplicibus vel bifidis, 250-300 ≃ 25-30, albis, e stipite oriundis horizontaliter implexo (an parietes perithecíorum *Aschersoniæ*?) succineo-aurantio; conidiis e fusoideo cylindraceis, acutiusculis, 12-14 ≃ 2-2,5, hyalinis, continuis, rectis vel subinæquilateralibus, utrinque apiculo conico, 4-5 ≃ 1, auctis, catenulatis (?), sporophoris e corniculis exsurgentibus, filiformibus, 20 25 ≃ 1, hyalinis, suffultis.

Hab. ad folia exsiccata adhuc pendula Laurineæ cujusdam in silvis pr. Guarapi Brasiliæ. — Species *Aschersoniæ tahitensi* et præcipue *Asch. oœysporœ* peraffinis nisi identica, loculis descriptis tamen non visis. Huic generi sine ullo dubio *Asch. basicystis* B. et C. est adscribenda!

PATELLINA Speg. — Sacc. Syll. IV, p. 677.

1. **Patellina? pusilla** Bomm. Rouss. Sacc. Contr. Myc. Belg. IV, p. 99. 8046
— Sparsa, globulosa dein subpatellata, albo-hyalina dein sordide alba, 320-350 μ. diam., contextu peripherico e fibrillis subparallele stipatis formato; conidiis bacillaribus, rectis, catenulatis (?), 6-8 ≃ 1, subinde 2-guttatis; basidiis filiformibus supra curvis, 120-150 ≃ 1-1,5 in ramulos plures sæpius oppositos divisis denticulosque sporigeros laterales gerentibus.

Hab. in fragmentis ligneis Fagi silvaticæ, Groenendael Belgii.

2. **Patellina buellioides** Speg. F. Puigg. n. 476. — Sporodochiis in- 8047
ter lichenes (an ex illis) erumpentibus, dein subsuperficialibus, applanatis, primo minute orbicularibus, 0,5-1 mm. diam., dein magis explanatis, irregulariter repandulis, disco aurantiaco, margine strictissimo sed bene distincto, albo cinctis, extus sordide albescentibus, levibus; sporophoris dense constipatis ac subcoalescentibus, 20-30 ≃ 1, hyalinis, apice acutiusculis, monosporis; conidiis subcylindraceis v. ex obovato ellipsoideis, utrinque obtusiusculis, 4-6 ≃ 1,5-2,5, continuis eguttulatis.

Hab. ad corticem lichenosum viventem pr. Apiahy Brasiliæ. — Species pulchella in juventute præcipue apotheciis *Buelliæ* cujusdam simillima.

3. **Patellina bicolor** Karst. Rev. Myc. 1889. — Sporodochiis sparsis, 8048
sessilibus, cupulatis, primitus subsphæroideis, ceraceo-coriacellis, albis; contextu subprosenchymatico, disco valde convexo, flavo, 0,1

mm. diam. v. paullo ultra; conidiis oblongatis v. ellipsoideis, guttulis 2 apicalibus, magnis præditis, hyalinis, 5-7 × 2-3; sporophoris dense constipatis, 20-45 × 0,5.

Hab. supra corticem vetustum in Brasilia prope Rio de Janeiro (Doct. Edw. Wainio).

SCORIOMYCES Ell. et Sacc. Syll. IV, p. 680.

1. **Scoriomyces Andersonii** Ell. et Gall. Journ. Myc. 1890, p. 33. — Sporodochiis ceraceo-flavis, porosis, 4–12 cm. long., 2–4 cm. cr., 2–4 cm. lat., ambitu irregularibus, in superficie colliculosis; conidiis laxe compactis, globosis, 35–55 μ. diam. 8049

Hab. in caudice putri Pini ponderosæ, Belt mountains, Montana Amer. bor. (F. W. Anderson). — A *S. Cragini* sporodochiis compactioribus, conidiis majoribus diversa.

VOLUTELLA Tode — Sacc. Syll. IV, p. 682.

1. **Volutella occidentalis** Ell. et Anders. Bot. Gaz. 1891, p. 46, t. VII, f. 1–6. — Sporodochiis gregariis, tenuibus, applanatis, usque ad 1 mm. diam., pallide aurantiacis v. carneis, ob pilos suberectos, pallidos, rugosulos, leniter septatos, 110-150 μ. long. fimbriatis; sporophoris ramosis; conidiis concatenatis, cylindraceis, rectis hyalinis utrinque 1-guttatis, 6-8 × 1,5–2. 8050

Hab. in caulibus emortuis Astragali flexuosi et Astr. Drummondii, Sand Coulee county, Montana Amer. bor.

2. **Volutella Boydiana** Sacc. *Volutella citrina* Cooke et Mass. Grev. XVIII, pag. 74 nec E. et Ev. — Erumpens, sparsa, discoidea, citrina, 1/3 mm. diam., sessilis; hyphis densis, gracilibus, hyalinis, flexuosis, levibus, septatis; conidiis oblongis, 3-4 × 1,5. 8051

Hab. in caulibus Trollii, West Kilbride, Ayrshire Britanniæ (D. A. Boyd).

3. **Volutella gilva** (Pers.) Sacc. Syll. IV, p. 685 — ***V. intricata** Kast. Symb. Myc. Fenn. XXIV, p. 19. — Sporodochiis sparsis, sessilibus, orbiculatis vel oblongatis, roseis, filamentis valde flexuosis, septatis, asperulis, pallidioribus 250–350 × 5–6 vestitis; conidiis cylindraceis rectis, subeguttulatis, hyalinis, 6–10 × 1,5-2,5; sporophoris fasciculatis 15 × 1,5. 8052

Hab. in petiolis putrescentibus Armoraciæ in horto mustialensi Fenniæ. — A typo filamentis longioribus et conidiis minoribus differt.

4. **Volutella lanuginosa** Pat. Bull. Soc. Myc. 1891, p. 183. — Sporo- 8053

dochiis carnosis, sessilibus, crassis, pulvinatis, sparsis v. confluentibus, intus rufidulis, extus roseo-cinerescentibus, 0,5-10 mm. lat., undique setis prælongis, 350 ≃ 5-6, cylindricis, septatis, apice obtusis, verruculosis, pallidissime brunneis, tectis; sporophoris linearibus, brevibus, hyalinis, 10-12 μ. long.; conidiis hyalinis, cylindraceis, rectis, utrinque obtusis, 3-5-guttulatis, 8-10 ≃ 2-3.

Hab. in ramulis dejectis, Egido prope Quito Æquatoriæ Americæ centr.

5. **Volutella citrina** Ell. et Ev. Journ. Myc. 1888, p. 55. — Sporo- 8054
dochiis turbinato-lenticularibus sessilibus, 0,5-1 mm. diam., margine laciniato-denticulato sed non ciliatis; basidiis 12-15 ≃ 1, copiosis; conidiis..... (non descriptis).

Hab. in ligno putri Pini, Newfield, N. Jersey Amer. bor.

6. **Volutella conorum** E. et E. Journ. Mycol. 1888, p. 55. — Sporo- 8055
dochiis sphæroideis, primo lacteis, 1/4 mm. lat., demum planis, sessilibus, 0,5 mm. diam., setis gracilibus 300-400 ≃ 3-4, albis, continuis, supra sensim attenuatis margine cinctis; hyphis simplicibus, 15-20 ≃ 1-1 1/4; conidiis subglobosis, hyalinis, 1-1 1/4 μ. diam. continuis, rectis.

Hab. in fructibus dejectis Magnoliæ glaucæ, Newfield, N. Jersey Amer. bor. — Differt a *V. fusarioidi* conidiis minoribus et rectis.

7. **Volutella paraguayensis** Speg. Guar. I, p. 173. — Sporodochiis 8056
hinc inde sparsis, globoso-depressis v. sublenticularibus, minutissimis, 150 μ. diam. melleis, non v. vix substipatis, margine longe laxisque ciliatis; setulis cylindraceis, sursum sensim attenuatis, parce remoteque septulatis, levibus 150-200 ≃ 5-8, hyalinis; contextu sporodochii carnoso, tenuissime ac subindistincte prosenchymatico; conidiis papillulis epithecii acrogenis, cylindraceis, 5-6 ≃ 1, utrinque truncato-subrotundatis, non v. minute 1-guttulatis, rarius subincrassatulis, hyalinis.

Hab. ad legumen dejectum putrescens in montuosis pr. Peribebuy Brasiliæ.

8. **Volutella albido-pila** Boud. Bull. Soc. Myc. 1891, p. 82, t. V, f. III. 8057
— Sporodochiis sessilibus, disciformibus v. oblongis, immarginatis, tenuibus, olivaceis, extus pilis albis, 0,8-1,5 mm. long., 10 μ. cr., septatis, apice subattenuatis cinctis; sporophoris numerosissimis, 25-30 μ. long., continuis, sporodochio dilutioribus; conidiis 12-16 ≃ 3, oblongo-cylindraceis, rectis, non septatis, utrinque sæpius minutissime 1-guttulatis, hyalinis, coacervatis subolivascentibus.

Hab. ad basim caulium Orchidum exsiccatorum in Gallia.

9. **Volutella Ellisii** Langlois Journ. Myc. 1887, p. 57. — Sporodochiis 8058
sessilibus, hemisphæricis, late roseis, $^1/_4$-$^1/_2$ mm. lat., setulis 80-100 × 3-4, erectis, hyalinis, continuis, ex margine v. ex toto receptaculo membranaceo assurgentibus; sporophoris bacillaribus, 18-20 × 3; conidiis oblongis, 6-10 × 2,5-3, curvulis, obscure guttulatis.

Hab. in culmis, vaginis et foliis Graminacearum, præcipue Panici, Pointe à la Hache, Louisiana Amer. bor.

10. **Volutella bombycina** Speg. F. Fueg. n. 456. — Sporodochiis cu- 8059
pulato-applanatis, 400-750 μ. diam., tenuibus, submembranaceis, superficialibus, late arcteque matrice adnatis, gossypino-lanuginosis, candidis, pilis lamellosis, involutis, longe lineari-spathulatis, 50-150 × 5-6, apice applanatis, irregulariter truncatis vel retusis, hyalinis vestitis; conidiis ellipticis vel ovoideis, utrinque acutissimis 2,5-3 × 1 ac minute 1-guttulatis, hyalinis, sterigmatibus cylindraceis, apice acutissimis, 5 × 1-1,5, hyalinis suffultis.

Hab. ad folia emortua Hierochloæ antarcticæ pr. Penguin rookery in Staten island Fuegiæ. — Ad *Vol. ciliatam* certe spectat *Psilonia Medicaginis* Brond. Rec. Crypt. Agen. II, p. 37, t. X, f. 4-7. — *Vol. nivea* (Fr.) Sacc. Syll. IV, pag. 685, teste Cooke et juxta exempl. orig. est opus entomogenum (*Adelges Fagi*). — *Psilonia hapalospora* B. et C. in Rav. Carol. III, n. 82, in culmis Zeæ in Carolina Am. bor. est forma major *Colletotrichi Lineolæ* Corda, conidiis 30 × 5-6, distincte curvatis, acutis, hyalinis, sporodochii setulis dense seriatis, rigidulis, parce septatis, 70-90 × 3-4, atro-fuligineis.

GUELICHIA Speg. Guar. I, p. 173 (Etym. ab egregio botanophilo C. von Gülich). — Sporodochia disciformia, margine tomentoso-ciliata. Sporophora filiformia, inferne coalescentia, superne libera, sub apice 6-setigera, setulis 3 minoribus descendentibus. Conidia fusoidea, continua, hyalina, solitarie acrogena. — Habitus *Cyphellæ*.

1. **Guelichia paradoxa** Speg. Guar. I. p. 174. — Maculis nullis; spo- 8060
rodochiis epiphyllis, sparsis v. rarius 3-9-aggregatis, 0,3-1 mm. diam., cupulatis, carnosulis, dense imperspicueque prosenchymaticis, ob setulis 100-250 × 6-7 albo-tomentellis; sporophoris hyalinis, cylindraceis, in dimidia parte infera coalescentibus, supra libera et ciliis 6 concoloribus, donatis, 3 superis longissimis, 40-50 × 1,5, subfalcato-divaricatulis, 3 inferis rectiusculis, 14-15 × 1-1,5; coni-

diis solitarie acrogenis, fusoideis. 25-30 ≃ 3,5-4, continuis, hyalinis, utrinque obtusiusculis.

Hab. ad folia viva Rhamneæ sp. pr. Paraguarì Brasiliæ. — *Cyphellæ albo-violascenti* habitu simillima.

Sect. 2. Didymosporæ Sacc.

PATOUILLARDIELLA Speg. F. Puigg. n. 477. (Etym. a cl. Patouillard, qui hujus generis naturam suspicatus est). — Sporodochia læticoloria, ceracea, subdiffluentia. Sporophora filiformia, monospora. Conidia acrogena, elongata, didyma, hyalina.

1. **Patouillardiella guaranitica** Speg. F. Puigg. n. 477, *Gymnosporangium? guaraniticum* Speg. Fung. Guar. Pug. I, n. 106, *Tubercularia Spegazzinii* Pat. Revue myc. 1889, p. 35. — Pulvinulis primo epidermide tectis, longitudinaliter erumpentibus, in juventute compactiusculis, per ætatem submucoso-diffluentibus, aurantiacis; sporophoris filiformibus, prælongis, 50-100 ≃ 1-1,5, hyalinis, simplicibus, rectis, muco junctis; conidiis ellipsoideo-elongatis v. elongato-subbiconicis, medio 1-septatis, non constrictis, 10-20 ≃ 3-4, hyalinis. 8061

Hab. ad ramulos et folia viva Sapindaceæ cujusdam pr. Apiahy Brasiliæ.

Sect. 3. Phragmosporæ Sacc.

FUSARIUM Link — Sacc. Syll. IV, p. 694.

A. Conidia typice septata.

I. *In Dicotyledoneis lignosis.*

1. **Fusarium Robiniæ** Passer. Diagn., F. N. V, n. 53. — Sporodochiis erumpentibus, subglobosis v. lineari-elongatis; conidiis falcatis, 5-7-septatis, 35-40 ≃ 5. 8062

Hab. in ramulo dejecto Robiniæ Pseudacaciæ, Vigheffio pr. Parma Ital. bor.

2. **Fusarium stillatum** De Not. in herb. — Acervulis epidermide valvatim secedente denudatis, oblongatis, humectis pallescentibus tremellosis, fluxilibus, 1-2 mm. long. æquantibus; sporodochiis tenuibus, dense flocculosis; conidiis innumeris, coacervatis, teretibus utrinque obtusis, curvatis, hyalinis, 20-35 μ. long., nucleo lacunula angusta ad medium interrupto. 8063

Hab. in caulibus exsiccatis Genistæ tinctoriæ ad pontem Possaccio Val Intrasca Ital. bor.

3. **Fusarium desciscens** Oud. Contr. Mycol. XIII, p. 63, f. 44. — 8064
Sporodochiis primo subepidermicis, dein prominulis, minutissimis, dilutissime carneis, subhemisphæricis, ceraceis; sporophoris repetite dichotome ramosis, ramis brevibus, absolute hyalinis; conidiis nunc clavatis, nunc piriformibus, imo obovato-oblongis, minoribus 1-2-septatis, maturis pluriseptatis et 20-30 × 7.

Hab. in ramulis junioribus siccis Sarothamni vulgaris, Schéveningue Hollandiæ (Destrée).

4. **Fusarium Volutella** Ell. et Ev. Proc. Acad. Phil. 1891, p. 93. — 8065
Sporodochiis penicillatis, per corticis rimas erumpentibus; sporophoris hyalinis, simplicibus v. parce ramosis, continuis v. pauciseptatis, 100 μ. v. ultra long., 4-5 μ. cr., erectis, supra tuberculoso-spiculosis; conidiis falcatis, 1-septatis, hyalinis, 50-70 × 4-5.

Hab. in cortice Vitis bipinnatæ, e Cytospora? quadam immersa oriundum, St. Martinsville, Louisiana Am. bor. (Langlois). — Habitus Volutellæ.

4. **Fusarium parasiticum** Fautrey in Rev. Myc 1889, p. 153. — Mi- 8066
nutissimum, roseum, secus ligni v. corticis rimas seriatum; conidiis semilunatis, parum incurvis, hyalino-roseis, 5-septatis, 60-80 × 5.

Hab. in sarmentis emortuis Vitis viniferæ, Noidan, Côte-d'Or Galliæ.

5. **Fusarium (?) Rubi** Winter in Hedw. 1885, p. 258. — Hyphis 8067
densissime stipatis, partes florales præcipue filamentis obducentibus, erectis, brevibus, plerumque simplicibus, rarius parcissime ramulosis, hyalinis; conidiis fusiformibus, utrinque acutis, sæpe parum curvatis seu inæquilateralibus, 1-3-septatis, ad septa non constrictis, hyalinis, 14-30 × 3-3,5.

Hab. ad flores Ruborum cultorum prope Cobden, Illinois Amer. bor. (F. S. Earle).

6. **Fusarium discoideum** Faut. et Roum. Rev. Mycol. Oct. 1891. — 8068
Sporodochiis carneis, erumpentibus, discoideis, epidermide lacera cinctis, 1,5-2 mm. diam.; conidiis semilunaribus, 40 × 4-6, continuis v. 1-4-septatis.

Hab. in cortice ramorum dejectorum Sambuci nigræ, Noidan Côte-d'Or Galliæ (F. Fautrey). — A *Fus. sambucino* et *Fus. pyrochroo f. Sambuci* conidiis satis diversum.

7. **Fusarium elongatum** Cooke Grev. XIX, p. 4. — Sporodochiis erum- 8069
pentibus, carnosis, convexis, compactis, aurantio-rubellis; hyphis

tenuibus, ramulosis, stipatis; conidiis in ramulorum apice insidentibus, tenuibus, elongatis, fusiformibus, paullum curvatis, acutis, 5-7-septatis, hyalinis 60-70, sæpe 80 ≃ 2-3.

Hab. in ramis, New Zealand (COLENSO).

8. **Fusarium carneo-roseum** Cooke Grev. XIX, p. 4. — Erumpens, tuberculiforme, carneo-roseum; conidiis fusiformibus, curvulis, hyalinis, 3-5-septatis, pallide roseo-tinctis, 45-50 ≃ 5. 8070

Hab. in corticibus New Zealand (KIRK). — Verisimiliter statum conidiophorum Nectriæ otagensis Curr. sistit.

9. **Fusarium sphæroideum** Passer. Diagn. F. N. IV, n. 140. — Sporodochiis subgregariis, atris, globoso-conicis, ligno denudato insidentibus; hyphis longis filiformibus, ramosis; conidiis fusiformibus, rectis, falcatis vel sigmoideis, chloro-joduri zinci ope distincte triseptatis, 22-38 ≃ 2,5-3, apicibus acuminatis, hyalinis. 8071

Hab. in ramo denudato Fici Caricæ, Parma Ital. bor.

10. **Fusarium sphæriæforme** Sacc. *Fusarium Celtidis* Passer. Diagn. F. N. V, n. 54 (1891) nec Ell. et Trac. — Sporodochiis epidermide velatis, dein nudatis, sphæriæformibus, atris; conidiis falcatis; apicibus acutis, hyalinis, 3-5-septatis, 25-30 × 4. 8072

Hab. in ramulis emortuis Celtidis australis, Vigheffio pr. Parma Ital. bor.

11. **Fusarium Celtidis** Ell. et Trac. Journ. Myc. 1890, p. 76. — Sporodochiis sparsis, erumpentibus, pulvinatis, pallide aurantiis, $^1/_4$-1 mm. diam.; sporophoris supra subfasciculato-ramosis, ramis erectis, septatis, 40-60 × 4; conidiis fusoideis, acutis, subrectis utrinque tantum subcurvulis, 5-septatis, 40-60 × 4-5. 8073

Hab. in fructibus Celtidis australis, Starkville, Missouri Amer. bor. (TRACY).

II. *In Dicotyledoneis herbaceis.*

12. **Fusarium longisporum** C. et M. Grev. XVI, pag. 4. — Sporodochiis erumpentibus, convexis, demum confluentibus, roseis, dein albidis; hyphis repetite dichotomis, septatis, hyaliuis; conidiis fusiformibus, utrinque abrupte uncinatis vel subrectis, acutis, 5-septatis, hyalinis, 100 × 5-7. 8074

Hab. in ramulis Passifloræ, Brisbane Australiæ (BAILEY).

13. **Fusarium Myosotidis** Cooke Grev. Grev. XVI, p. 49. — Hypophyllum; maculis minutis, irregularibus, pallidis; sporodochiis tenuibus; conidiis fusoideis, curvis, 3-septatis, hyalinis, 30 ≃ 3-4, 8075

Hab. in foliis languidis Myosotidis, Forden Britanniæ (J. E. Vize).

14. **Fusarium protractum** Lév. Ann. Sc. nat. 1848, I, p. 246. — Sporodochiis erumpentibus, elongatis 2–6 mm. long., aurantiacis, initio tectis; conidiis fusiformibus utrinque obtusulis, 1-3-septatis, curvatis. 8076

Hab. ad sarmenta emortua Solani Dulcamaræ, Romainville Galliæ.

15. **Fusarium rutæcolum** Fautr. et Roum. Rev. Myc. 1891, p. 82. — Sporodochiis roseis, erumpentibus, majusculis, confluentibus, secus corticis rimas dispositis; sporophoris ramosis; conidiis arcuatis, acutis, 1-3-septatis, 40–50 ≃ 4–6. 8077

Hab in ramis dejectis Rutæ graveolentis, Noidan, Côte-d'Or Galliæ (F. Fautrey).

16. **Fusarium Succisæ** Schröt in Thüm. M. U. n. 675 et Hedw. 1873, p. 180, *F. anthophilum* A. Br. in Rab. F. E. n. 1964. — Acervulis epicorollinis, exiguis, miniatis; hyphis mycelicis 3-4 μ. cr.; conidiis cylindraceis, valde curvatis, utrinque acutis, demum pluriseptatis, 20–60 ≃ 3-4, hyalinis, coacervatis rubellis. 8078

Hab. in partibus super. corollarum Succisæ pratensis, quæ corollæ clausæ manent et mox arescunt et fuscescunt, in Silesia, Bavaria, Borussia.

17. **Fusarium diffusum** Carm. Grev. XVI, pag. 81. — Effusum, aurantium; conidiis fusoideis, acuminatis, subincurvis, 3-5-septatis, hyalinis, 60-70 ≃ 3. 8079

Hab. in caulibus Cardui, Appin Britanniæ. — *F. roseo* affine.

18. **Fusarium oidioides** Speg. in Rev. Myc. 1886, pag. 183. — Maculis nullis, mycelio epiphyllo, laxissime effuso, subpulveraceo, indefinito, albo; hyphis hyalinis, repentibus dense ramosis, gracilibus, 3–4 μ. crass., hinc inde ramulis irregulariter subfasciculatis, rarius solitariis, utrinque non vel vix attenuatis, 5–10 × 4–5, apice truncatis ac 2–3 sterigmatibus papilliformibus brevissimis coronatis; conidiis fusoideis, leniter falcatis, non constrictis, utrinque acutis, hyalinis, 30–50 ≃ 3-4, solitariis. 8080

Hab. ad folia viva Polygoni multiflori in dumetis prope Tokio Japoniæ.

19. **Fusarium ruberrimum** Delacr. Bull. Soc. Myc. 1890, p. 139. — Effusum, intense cinnabarinum; sporophoris curvulis, continuis, simplicibus, 15–18 × 1-1,5; conidiis curvulis v. subrectis, utrinque acutis, ex hyalino aurantio-rubris, 40 ≃ 3. 8081

Hab. in seminibus Onobrychidis sativæ, Paris Galliæ. — *F. roseo* subaffine.

20. **Fusarium æruginosum** Delacr. Bull. Soc. Myc. 1891, p. 110, t. VIII, f. 4. — Sporodochiis magnis, hemisphæricis, e cyaneo æruginosis; sporophoris ramosis, parce septatis, hyalinis, ramis brevioribus; conidiis falcatis, 3–5-septatis, non constrictis, granulatis, hyalinis v. glaucescentibus, 20-25 × 4–5. 8082

Hab. in tuberibus Solani tuberosi, Paris Galliæ.

III. *In Monocotyledoneis.*

21. **Fusarium Iridis** Oud. Contr. Mycol. XIII, p. 63. — Sporodochiis parum distinctis; conidiis cylindraceis, curvulis, utrinque acuminatis, hyalinis, 5-septatis, 40-50 × 3,5. 8083

Hab. in foliis Iridis Pseudacori, Haye Hollandiæ (Destrée).

22. **Fusarium carneolum** Karst. Symb. Myc. Fenn. XXVII, p. 35. — Sporodochiis superficialibus, exiguis sæpe confluentibus, ceraceis, carneis; sporophoris filiformibus, fasciculatis, tenerrimis; conidiis fusoideo-bacillaribus, utrinque acutis (falcatis), continuis hyalinis, 24-39 × 2–3. 8084

Hab. in foliis putridis Iridis Pseudacori prope Kojo in parœcia Tammela Fenniæ.

23. **Fusarium Asparagi** Briard in Rev. Myc. I Jul. 1890, pag. 142, Suppl. Crypt. Aube p. 138. — Sporodochiis minutis oblongis, 0,5-1 mm. long. 0,2 mm. lat., erumpentibus, roseis; conidiis fusoideis, curvulis v. subrectis, 3-6-septatis, non v. vix constrictis, roseo-pallidis, sub microsc. hyalinis, 40–72 × 5-7. 8085

Hab. in caulibus siccis Asparagi, St.-Parres-les-Tertres pr. Troyes Galliæ.

24. **Fusarium Delacroixii** Sacc. *Fusarium Asparagi* Delacr. Bull. Soc. myc. XV Jul. 1890, p. 99, t. XV, f. III–IV. — Sparsum vel subgregarium, roseo-carneum; sporophoris subsessilibus, ramulis verticillatis; conidiis hyalinis, curvulis v. subrectis, 4-5-septatis, loculis mediis plerumque subprotuberantibus, guttulatis, primo ovatis, continuis v. 1-septatis, 30-40 × 4–5. 8086

Hab. in caule sicco Asparagi officinalis, Herbley pr. Parisios Galliæ. — « An satis diversum a præcedente? »

25. **Fusarium bulbigenum** Cooke et Mass. Grev. XVI, p. 49. — Effusum, albidum; sporodochiis in cæspitulos dein confluentes suberumpentibus; conidiis fusoideis, arcuatis vel incurvis utrinque acutis, 3-septatis, hyalinis, 40-50 × 5. 8087

Hab. in bulbis ægrotantibus Narcissi in Britannia.

26. **Fusarium Ampelodesmi** Fautr. et Roum. Rev. Myc. 1891, p. 82. 8088
— Sporodochiis amorphis, effusis, tenuibus, sordide albis; conidiis fusoideis, acutissimis, incurvis 5-septatis, 30-40 = 3.

Hab. in foliis Ampelodesmi tenacis, Noidan, Côte-d'Or Galliæ (F. FAUTREY).

27. **Fusarium Caricis** Oud. Microm. I, p. 14. — Sporodochiis minu- 8089
tis, tandem in stratum pallide roseum confluentibus; sporophoris ramosis, ex articulis brevibus, oblongis compositis; conidiis bacillari-fusoideis, utrinque paullum incurvis, 5-septatis, intermixtis paucioribus 3-4-6-septatis, hyalinis, dein 50 = 7.

Hab. in foliis Caricis sp. pr. Hagam Hollandiæ (DESTRÉE).

28. **Fusarium nivale** Ces. in Rabenh. Herb. Myc. Ed. I, n. 1439, *Fu-* 8090
sarium oxysporum Schlech. El. Ber. II, pag. 139? — Sporodochiis primo optime distinctis, punctiformibus, seriatis, e carneo-miniatis, demum in stratum gelatinosum confluentibus; conidiis minutis, parum curvatis, utrinque rotundatis, apiculatis, fere inæqualibus, 1-5-septatis, 14-20 μ. longis.

Hab. in culmis Cerealium hibernantium prope Vercelli Italiæ borealis.

29. **Fusarium Andropogonis** Cooke in Thüm. in M. U. n. 676, et Ellis 8091
N. U. F. n. 809. — Sporodochiis erumpentibus, discoideis, exiguis, 200 μ. diam., brunneis, excipulo prosenchymatico fuligineo cinctis; conidiis anguste tereti-fusoideis, curvulis, 3-5-septatis, 33-40 = 3, hyalinis; basidiis filiformibus passim furcatis, hyalinis, conidio brevioribus.

Hab. in culmis emortuis Andropogonis virginiani, Newfield N. J. Americæ borealis. — «Mihi videtur potius *Protostegiæ* species».

30. **Fusarium Tritici** Eriksson. in Bot. Centr. 1891, n. 36, p. 299, *F. Tri-* 8092
tici? Liebm. Tidskr. f. Landækon. 1840, p. 515, f. *B*, 1,2, *F. culmorum?* W. G. Smith. Dis. Gard. and Field. Cr. p. 209-210. — Sporodochiis primo sparsis, punctiformibus, nervisequis, aurantiacis, demum diffluentibus; conidiis fusoideis, curvulis, 1-2-septatis, 12-20 = 1,5-2.

Hab. in glumis et valvis Tritici duri, Stockholm Suec.

31. **Fusarium Schribauxii** Delacr. Bull. Soc. myc. 1890 p. 99, t. XV, 8093
f. I. — Pallide carneum, sparsum, minutum; sporophoris iterato-verticillatis; conidiis hyalinis, 4-septatis, rectis v. curvulis, levissime constrictis, 35-40 = 6-7.

Hab. in caryopsidibus Tritici sativi germinantibus, socio *Cephalothecio roseo*, Paris Galliæ.

32. **Fusarium miniatulum** Sacc. *F. miniatum* Prill. et Delacr. Bull. Soc. Myc. 1891, p. 117, c. ic., nec Auct. — Miniatum pulvinulatum vel subeffusum; hyphis sterilibus, hyalinis, repentibus, septatis, 2 μ. lat.; sporophoris rectis, simplicibus, continuis, sursum obtuse attenuatis, 10-12 × 2; conidiis fusoideis, curvulis vel interdum subrectis, hyalinis, 3-septatis, 19-22 × 4-5. 8094

Hab. in caryopsidibus putridis Secalis Cerealis, Paris Galliæ.

33. **Fusarium gigas** Speg. Guar. I, p. 174. — Mycelio tenuissimo, effuso, vix perspicuo, arachnoideo, ex hyalino albo-roseo; hyphis repentibus, laxe ramoso-intricatis, remotissime septulatis, 3-4 μ. cr. hinc inde ramulos brevissimos, simplices, monosporos, erectos emittentibus; conidiis cylindraceo-fusoideis, utrinque attenuato-acutatis, 100-130 × 7-8, apice tantum inæquilaterali-subfalcatis, 9-11-septatis, non constrictis, hyalinis. 8095

Hab. ad culmos dejectos Bambusaceæ cujusdam, socio Pyrenomycete sterili, pr. Arroyo-Guazù Brasiliæ.

IV. *In Acotyledoneis.*

34. **Fusarium Agaricorum** Sarraz. in Rev. Mycol. 1887, p. 170. — Sporodochiis gregariis, compactis, parvis, verruculosis, maculas fulvas, dein nigricantes, orbiculares, dein late confluentes efformantibus; hyphis brevibus, ramosis, guttatis, hyalinis; conidiis fusoideis, incurvis, 16-22 × 4. 8096

Hab. in pileo Agarici campestris var. albæ cultæ, Senlis, Oise Galliæ (Cap. F. Sarrazin).

35. **Fusarium Sclerodermatis** Oud. Contr. Mycol. XIII, p. 64 (1889). — Sporodochiis roseis, primitus separatis, dein confluentibus; conidiis fusoideis, curvatis, hyalinis, utrinque acutissimis, imo subapiculatis, vulgo 5-septatis, 40 × $4^2/_3$. 8097

Hab. in Sclerodermate vulgari putri, Schéveningue Hollandiæ (Destrée).

36. **Fusarium Peckii** Sacc. *Fusarium Sclerodermatis* Peck 43 Rep. p. 31 (1890). — Sporodochiis minutis, convexis, rubro-flavis vel aurantiacis; sporophoris subramosis, conidia subæquantibus; conidiis continuis v. obscure 2-3-septatis, subcurvis, utrinque acutissimis, 30-45 × 4. 8098

Hab. in peridio Sclerodermatis vulgaris, Manor Amer. bor. — Probabiliter non satis diversum a præcedente.

37. **Fusarium Ustilaginis** Kell. et Sw. II, Rep. Agr. Kans. pag. 285, t. IX, f. 1-13. — Compactum, album v. roseolum, effusum; sporophoris erectis, valde ramosis, hyalinis; conidiis fusoideis, sæpius subcurvis, magnitudine variis, 20-66 ≃ 3-6,5 plerumque 2-9-septatis. 8099

Hab. in Ustilagine Avenæ in ovariis Avenæ, Manhattan, Kansas Amer.

38. **Fusarium parasiticum** E. et K. Journ. Myc. 1887, pag. 127. — Stratum tenue, griseo-album efficiens; sporophoris 35 μ. long., supra valde ramosis; conidiis lunatis, utrinque attenuatis et acutis, leniter subtriseptatis, 20-30 ≃ 3. 8100

Hab. parasiticum in Puccinia Seymeriæ in Seymeria macrophylla, Manhattan, Kansas Amer. bor.

39. **Fusarium uredinicolum** J. Muell. Berichte deut. bot. Gesell. 1885, pag. 395. — Mycelio endophleo et endophyllo, ramoso, septato, hyalino, ex soris Uredinearum erumpens, ramis fertilibus erumpentibus fasciculatis; conidiis acrogenis, fusoideis, uno v. utroque apice acutatis, 27-48 ≃ 2,5-3, hyalinis, 2-5-septatis. 8101

Hab. in soris Uredinearum ad ramos Rosæ et Rubi in Borussia.

V. In animalibus et in fabrefactis.

40. **Fusarium Acridiorum** (Trab.) Brongn. et Delacr. Champ. paras. des criquets p. 7-8, *Lachnidium Acridiorum* (Trab.) Giard, *Botrytis* Trab. — Mycelio copioso, albo pluriseptato, ramoso, sinuoso, intus granuloso, hinc inde inflato; hyphis fertilibus brevibus plerumque e partibus inflatis oriundis, mono-tetrasporis; conidiis modo ovoideis continuis, modo oblongis constricto-1-septatis, 11 ≃ 5, modo falcatis 2-4-septatis, 25-35 μ. longis. 8102

Hab. in Acridio peregrino in Algeria. — Hæc species, nec non *Polyrrhizium Leptophyæ* Giard — Syll. IX, p. 356 — quod simul occurrit in Algeria, sec. cl. Brongniart l. c., saprogena sunt nec insecta necant.

41. **Fusarium aquæductuum** (Radl. et Rab.) Sacc. *Selenosporium aquæductuum* Radl. et Rabenh. in Hedwigia 1861, p. 73. — Stromate libere evoluto, carnoso-floccoso, stratum gelatinoso-fibrosum dilute flavidum formante, floccis septatis, plus minus ramosis sæpius flexuosis, fructiferis erectis, conidiis in superiori floccorum parte lateraliter sparsis, interdum oppositis vel binatis, falcatis, utrinque acutis, septatis, 1-pluri-guttatis, 24,5-59,9 (ex errore 599) ≃ 2,7-4. 8103

Hab. in aquæductibus, sociâ *Zooglœâ Termone*, urbis München Bavariæ, copiose (RANDLKÖFER).

42. **Fusarium moschatum** (Rab. et Radlk.) Lagerh. in Beiheft. Bot. Centr. 1891, p. 409, *Selenosporium* Rab. et Radlk. (ubi?), *Fusisporium moschatum* Kitasato. — Subgelatinosum, acriter moschatum, pulvinatum, albo-cinereum, dein purpurascens; mycelio ramoso-septato; conidiis variis, sæpe falcatis, acro-pleurogenis. 8104

Hab. in aquæductibus, etiam metallicis, in institutis anatomicis et pathologicis in Germania, Suecia. — Odor fortis moschatus per alcoholem extrahi non potest. Sec. cl. Kitasato in Centralbl. 1889, IV, p. 351, species nascitur in infusione fœni et præbet conidia falcata, 1-septata, 7-13 ≃ 1-1,5, pleurogena.

B) Conidia continua (*Fusamen* Sacc. et *Leptosporium* Sacc.).

43. **Fusarium hypocreoideum** Cooke et Mass. Grev. XVI, p. 76. — Sporodochiis convexis, pulvinatis, hypocreiformibus, 1 mm. diam., aurantiis, subdiscoideis; conidiis fusoideis, continuis, hyalinis, 15 ≃ 3. 8105

Hab. in foliis languidis Fici asperæ, Brisbane (BAILEY).

44. **Fusarium Poincianæ** Passer. Diagn. F. N. IV, n. 139. — Erumpens, aurantiacum, discoideum, epidermide cinctum, lineari-seriatum; hyphis fasciculatis, 12-15 μ. longis; conidiis minutissimis, bacteroideis, hyalinis, 3-4 × 1. 8106

Hab. in ramo sicco Poincianæ Gillesii in horto botanico Parma Ital. bor. — « Vix *Fusarium*, an potius *Nœmospora?* ».

45. **Fusarium nucicolum** Karst. et Har. Rev. Myc. 1890, n. 47. — Sporodochiis aggregatis, sæpe confluentibus, gelatinoso-ceraceis, pulvinatis vel tuberculiformibus, exiguis, nudis, carneis; conidiis oblongatis, utrinque obtusissimis, subinde inæqualibus, solito rectis, continuis hyalinis, 10-20 ≃ 3-5. 8107

Hab. ad epicarpium nucis, Méry-sur-Seine, Aube in Gallia.

46. **Fusarium Patouillardi** Sacc. *Fusarium uredinicolum* Pat. Bull. Soc. Myc. 1888, p. 127, nec J. Müll. — Minutissimum, sparsum, roseum, subtus stipitiforme, apice ramosum; conidiis ovoideis, simplicibus, elongatis, 10 ≃ 3,5, hyalinis. 8108

Hab. sub soris Pucciniæ pallidissimæ inter perithecia Darlucæ fili, Caracas Venezuelæ.

47. **Fusarium spermogoniopsis** J. Muell. Berichte deut. bot. Gesell. 1885, p. 394. — Dense fasciculatum, ex soris Uredinearum erumpens; hyphis gracillimis, hyalinis; conidiis acrogenis acute ovoideis, 8-9 ≃ 1,5-2,5, granulosis, hyalinis. 8109

Hab. in soris Phragmidii Subcorticii et Phr. Rubi ad sarmenta Rosæ atque Rubi in Borussia.

48. **Fusarium hydnicolum** E. et E. Journ. Mycol. 1888, p. 45. — Aculeos Hydni mycelio albo obvolvens; conidiis minutis, subglobosis, 2-2,5 μ. diam. vel ellipsoideis, 2-nucleatis, 3-5 × 2-2,5. 8110

Hab. parasiticum in Hydno membranaceo ad corticem quercinum, Concordia Mo. Amer. bor. (Demetrio).

49. **Fusarium fungicolum** Karst. Rev. Myc. 1890, n. 47. — Sporodochiis sparsis, superficialibus, rotundatis, fulvescentibus, saltem in statu sicco, 0,1 mm. v. paullo ultra cr., hyphis intertextis, continuis, 5-6 μ. cr. cinctis; conidiis anguste fusoideo-elongatis, continuis, rectis v. subrectis, 6-12 × 1; sporophoris 20-30 × 0,5. 8111

Hab. ad lamellas Lenzitis betulinæ in Mustiala Fenniæ (P. A. Karsten). — (Hic animadvertere liceat, sporas *Lenz. betulinæ* esse oblongatas, 5-7 × 2 nec sphæroideas, Karst. loc. cit.)

50. **Fusarium mycophilum** (Karst.) Sacc. *Leptosporium mycophilum* Karst. Symb. Myc. Fenn. XXV, pag. 24. — Sporodochiis effusis, mollibus, tenuissimis, aurantiacis, ambitu subbyssino, albo; conidiis oblongatis, continuis, rectis, hyalinis, 3-4 × 1-1,5. 8112

Hab. in specie indescripta Myxomycetum in regione Aboensi, Merimasku Fenniæ.

51. **Fusarium heterosporoides** Fautrey in Rev. Myc. 1890, pag. 126. — Sporodochiis violaceis, mollibus; conidiis variabilibus, ovoideis, oblongis, rotundatis, hyalinis, guttatis, 10 × 4-5, dein 13-15 × 6-7. 8113

Hab. in Sclerotio Clavo ad Glyceriam fluitantem, Charny, Côte-d'Or Galliæ (F. Fautrey).

52. **Fusarium barbatum** E. et E. Journ. Myc. 1888. p. 45. — Sporodochiis applanatis, subconfluentibus, cinereis, dein aurantiis; hyphis erectis, simplicibus, hyalinis, continuis vel tenuiter septatis, sursum tenuatis, 20-25 × 2,5, apice conidia piriformia, hyalina, continua, 4-6 × 2-2,5 gerentibus. 8114

Hab. in Usnea barbata, Newfield N. J. Amer. bor. — **Bactidium flavum** Kunze, Sacc. Syll. IV, p. 691. Huc fere absque dubio spectat *Ericianella aurea* Brond. Rec. Crypt. Agen. pag. 14, tab. 3.

PIONNOTES Fr. — Sacc. Syll. IV, p. 725.

1. **Pionnotes Pinastri** Karst. in Hedw. 1888, p. 105, — Sporodochiis sparsis vel gregariis, subinde confluentibus, pertenuibus, gelatino 8115

sis, lutescentibus, pallescentibus vel succineis, minutis; conidiis filiformibus, continuis, rectis, hyalinis, usque ad 90 μ. long., 1 μ. cr.

Hab. in foliis emortuis Pini silvestris in Fennia austr.

2. **Pionnotes Pseudonectria** Speg. F. Guar. II, n. 200. — Sporodochiis 8116
hinc inde per rimulas corticis erumpentibus, subsuperficialibus, solitariis v. 3-10-aggregatis sæpeque confluentibus, subglobosis vel piriformibus, minutis, 250-350 μ. diam., succineo-aurantiis, glabris, levibus; sporophoris e nucleo centrali basalique subparenchymatico-oriundis, dense fasciculatis, cylindraceis, 250-300 ≃ 3, rectis, simplicibus, continuis v. parce septatis, hyalinis, monosporis; conidiis cylindraceis, utrinque attenuatis ac curvulis, 80 ≃ 6, 5-7-septatis, non constrictis, hyalinis.

Hab. ad corticem ramorum putrescentium plantæ ignotæ in silvis pr. Paraguari Brasiliæ.

MICROCERA Desm. — Sacc. Syll. IV, p. 727.

1. **Microcera Clavariella** Speg. Guar. I, p. 175. — Maculis nullis; 8117
sporodochiis cylindraceis, minutis, 250-500 μ. alt., 50-80 μ. cr., simplicibus, apice obtusis, erectis, ceraceis, tenacellis, rigidulis, flavidulis v. carneis, solitariis v. sæpius 2-10 aggregatis e nucleo lenticulari, 0,5-1 mm. diam. concolori, subepidermico, parenchymate innato oriundis, glabris; sporophoris sporodochii superficiem totam obtegentibus (an apicibus ejusdem hypharum?), clavulatis, apice obtusatis v. acutatis, dense ruguloso-strictis, 10-15 ≃ 3, hyalinis, monosporis; conidiis clavulatis, curvulis, 3-5-septatis, non constrictis, 20-27 ≃ 1,5-2, utrinque acutis, hyalinis.

Hab. ad folia viva Eugeniæ sp., sociâ *Phyllachorâ involutâ* pr. Caà-guazù Brasiliæ.

2. **Microcera pluriseptata** Cooke et Mass. Grev. XVII, p. 43. — Exi- 8118
gua, sparsa, pulvinata, aurantia, sessilis; conidiis bacillaribus, utrinque conico-attenuatis, rectis vel leniter curvulis ad 11-septatis, hyalinis, 100-120 ≃ 10; sporophoris filiformibus, ramosis.

Hab. in Calocera glossoide et in corticibus, Cordova, Mexico (Sallé).

3. **Microcera rectispora** Cooke et Mass. Grev. XVI, p. 4. — Spo- 8119
rodochiis subsphæroideis, subsessilibus, primo rubellis, demum albidis; conidiis elongato-fusiformibus, utrinque acutis, 7-9-septatis, hyalinis, 150-200 ≃ 10; sporophoris brevibus, tenuibus, furcatis, hyalinis.

Hab. ad coccos in Citro Aurantio, Brisbane Australiæ (Bailey).

Sect. 4. Helicosporæ Sacc.

EVERHARTIA Sacc. et El. Syll. IV, p. 729.

1. **Everhartia lignatilis** Thaxt. Bot. Gaz. 1891, p. 204, t. XX, f. 10- 8120
12. — Sparsa, superficialis, stipitata vel substipitata, flavida, dein basi nigricante, subcylindracea vel supra expansa, 250-400 ≃ 100-150; conidiophoris septatis, subdichotomis; hyphis sterilibus simplicibus intertextis; conidiis acrogenis, hyalinis, 3-septatis, cylindraceis vel subapplanatis, 4 μ. diam., basi rotundata et apice rostrato in circulum simplicem, 12-13 ≃ 8-9, adproximatis, massa viscosa, flava inclusis.

Hab. in caudicibus udis, Connecticut Amer. bor.

Ser. 2. Tubercularieæ dematieæ

Sect. 1. Amerosporæ Sacc.

EPICOCCUM Link — Sacc. Syll. IV, p. 736.

1. **Epicoccum Malinvernianum** Cesat. et De Not. in Erb. Critt. It. I, 8121
n. 789, Sacc. Syll. IV, p. 742. — Hypophyllum, punctiforme, atrum, effusum v. subcircinnatum; sporodochiis pulviniformibus, fuscis, obscure cellulosis, cellulis periphericis subelongatis, articulatis sporiferis; conidiis sphæricis, fuligineo-fuscis, muriculatis, vix translucidis, decussis, appendicula diaphana auctis.

Hab. in foliis emortuis Mororum, Oldenico Vercelli Ital. bor.

2. **Epicoccum diversisporum** Preuss — Syll. IV, pag. 741. — Sec. Peck 44 Rep. p. 28, conidia variant magnitudine 7-20 μ. diam. Nascitur quoque in ligno plerumque rubefacto Abietis, Wilmurt Lake Amer. bor.

BONPLANDIELLA Speg. Guar. I, p. 175 (Etym. ab ill. bot. A. J. A. Bonpland). — Sporodochia globosa e sporophoris simplicibus, olivaceis coalescentibus, apice liberis ac in appendicem gracilem productis, composita. Conidia globosa, in appendicibus basidiorum dense pleurogena, chlorina, non catenulata. — Genus inter *Tuberculariea* et *Dematieas* anceps.

1. **Bonplandiella guaranitica** Speg. Guar. I, p. 175. — Sporodochiis 8122

hinc inde laxe aggregatis, hypophyllis, superficialibus, globosis, 150-180 μ. diam., obscure olivaceis, puberulis, matrici arcte adnatis; sporophoris cylindraceis, coalescentibus, olivaceis, apice abrupte cuneato-rotundatis, 65-70 ≃ 3-4, ac in appendicem cylindraceam, 5-20 ≃ 2-3, denticulato-nodulosam, subhyalinam productis; conidiis elliptico-globosis, 1,5 μ. diam., pallide olivaceis v. fumosis, in parte media appendicis basidiorum dense 10-20-pleurogenis, rarius 2-3 acrogenis.

Hab. ad folia viva Sapotaceæ cujusdam, sociâ *Phyllachorâ pulcrâ* Paraguarì Brasiliæ.

STRUMELLA — Sacc. Syll. IV, p. 742.

1. **Strumella Darntiana** Roum. et Wint. in Rev. Myc. 1886, p. 213. 8123
— Sporodochiis gregariis, in macula permagna, rotundato-subirregulari, ambitu flexuoso, lobato crenatoque, determinato, albido, margine lato, lutescente et area obscuriori indeterminata, pro maxima parte epiphyllis, parcius hypophyllis, forma variis, sphæriæformibus vel plus minusve elongatis, fere hysteriiformibus, usque ½ mm. longis, atris, erumpentibus, demum superficialibus, ex hyphis erectis vel ascendentibus, crassis, articulatis, deorsum nigricantibus, sursum hyalinis, ramosis (interdum dichotomis) et dense contextis formatis; conidiis ignotis.

Hab. in foliis vivis Artocarpi integrifoliæ in insula Mauritio (Darnty).

2. **Strumella elongata** Bres. Rev. Myc. 1891, p. 33, t. 114, f. X. — 8124
Sporodochiis gregariis vel confluentibus, erumpenti-superficialibus, subpulvinatis, atro-olivaceis, 4-6 ≃ 2 mm.; sporophoris simplicibus vel subramosis, septatis, olivaceis, fasciculatis, 5-6 μ. cr.; conidiis obovato-elongatis, continuis vel demum spurie 3-septatis, 12-18 ≃ 5-6,5.

Hab. in caulibus Sambuci nigræ pr. Leutschau Hungariæ.

3. **Strumella strobilina** Cooke et Mass. Grev. XVIII, p. 20. — Pu- 8125
stulis gregariis erumpentibus, subprominulis, subglobosis, nigris, 0,25 mm. diam.; hyphis simplicibus vel furcatis, filiformibus; conidiis fusoideis, 1-septatis, utrinque acutis, fumoso-olivaceis, 15-17 ≃ 2,5.

Hab. in conis Abietum, Newcastle Britanniæ. — «An *Epiclinium?*».

4. **Strumella conigena** Br. et Sacc. *Str. strobilina* Br. et Har. Journ. 8126
Bot. 1891, p. 173. — Sporodochiis erumpentibus punctiformibus, pulvinulatis, 150-200 μ. diam. nigricantibus, dense gregariis vel

subconfluentibus; hyphis fasciculatis, subrectis, simplicibus, continuis vel parce septatis, brunneis, 40–50 ≈ 4–5; conidiis oblongo-fusoideis vel subellipsoideis, obtusulis, dilute olivaceis, subhyalinis, continuis 10-20 ≈ 4-5, catenulatis (?).

Hab. in squamis subsiccis strobilorum Pini silvestris, Clermont, Puy-de-Dôme Galliæ.

5. **Strumella hysterioidea** Cooke et Mass. Grev. XVII, pag. 69. — 8127
Sporodochiis gregariis, erumpentibus, prominulis, elongato-ellipticis, hysteriiformibus 1-2 mm. long., 0,5-1 mm. diam., compactis, atris; hyphis brevissimis; conidiis sphæroideis vel subsphæroideis, continuis, olivaceis, 7-8 μ. long.

Hab. in ramis decorticatis, Brisbane Australiæ (Bailey).

6. **Strumella patelloidea** Cooke et Mass. Grev. XX, p. 7. — Sporo- 8128
dochiis orbiculari-patellatis, sparsis, superficialibus, nigris, 1-1,5 mm. diam.; conidiis subglobosis vel ovoideis, continuis, atro-olivaceis, 7-8 μ. diam., sporophoris brevibus suffultis.

Hab. in ligno decorticato in Tasmania (Martin). — Fructificatione *S. hysterioideæ* accedit, sed habitus omnino diversus.

7. **Strumella dealbata** E. et E. Journ. Mycol. 1888, p. 50. — Spo- 8129
rodochiis areolas dealbatas ligni occupantibus, gregariis, erumpentibus, olivaceo-nigris, tuberculiformibus, supra plerumque deplanatis, 1 mm. diam., hyphis vel sporophoris subrudimentariis conidia subglobosa copiosa, subcatenulata varieque affixa, brunnea, rugulosa gerentibus.

Hab. in ligno emortuo, British Columbia Americæ borealis (J. Macoun).

8. **Strumella Sacchari** Cooke Grev. XIX, p. 45. — Sporodochiis gre- 8130
gariis, erumpentibus, nigris, patellaribus vel subclavatis, basi stipitiformi brevi fultis vel cylindraceo-multiformibus, 0,5 mm. diam.; hyphis brevibus, hyalinis, simplicibus; conidiis tereti-ellipsoideis, continuis, pallide fuscis, 10-12 ≈ 3.

Hab. in culmis Sacchari officinarum, Queensland Australiæ (Bailey).

TRIPLICARIA Karst. Hedw. 1889 (Etym. *triplex*). — Sporodochia superficialia, convexa, e stratis tribus composita; infimo ex hyphis ramosis fuligineis compacto, intermedio grumoso subcinnamomeo, superiore floccoso, lurido-cinerescente. Conidia pleurogena, sphæroidea, sublevia, hyalina.

1. **Triplicaria hypoxyloides** Karst. loc. cit. — Sporodochiis pulvinis 8131

tis, discretis, connatis vel confluentibus, rarius plus minus effusis, strato imo fusco-atro, intermedio subochraceo-cinnamomeo, superiore ex hyphis ramosis, obsolete articulatis, varie flexuosis, repentibus, circ. 9 μ. crassis laxe composito, 2–4 mm. alt. et lat.; conidiis sphæroideis, 6-8 μ. diam.

Hab. in ligno ramorum Salicis phylicæfoliæ locis uliginosis, umbrosis dejectorum ad Mustiala Fenniæ.

SCLERODISCUS Pat. Journ. de Bot. 1890, p. 66 (Etym. *scleros* durus et discus). — Sporodochia disciformia, brunnea dein nigricantia; hyphæ obsoletæ. Conidia ovoidea, continua, brunnea, totum sporodochium obducentia. — In nonnullis speciminibus adsunt sclerotia endophylla lata, dura, intus alba, fungilli initia forte sistentia.

1. **Sclerodiscus nitens** Pat. loc. cit. fig. 11. — Sporodochiis dense gregariis, 1,5–2 mm. lat., applanatis, subsuperficialibus, nitidis, brunneis dein nigris; conidiis ovoideis, 4–5 = 1,5–3, bi–triguttulatis, brunneis, copiosissimis. 8132

Hab. in foliis vivis Moreæ cujusdam spinosæ, Fu-Phap et Banton Tonkin.

HYMENOPSIS Sacc. Syll. IV, p. 744.

1. **Hymenopsis decipiens** Passer. Diagn. F. N. IV, n. 141. — Gregaria, e ligno erumpens subhysteriiformis, atra; basidiis densis bacillaribus hyalinis; conidiis cylindraceis, rectis, hyalinis, 6-8 × 1,5. 8133

Hab. in ramis denudatis Fici Caricæ, Parma Ital. bor.

EPIDOCHIUM Fr. — Sacc. Syll. IV, p. 747.

1. **Epidochium olivaceum** E. et Ev. Proc. Acad. Phil. 1891, p. 93. — Sporodochiis solitariis v. cæspitosis, tuberculiformibus, subhemisphæricis, $^1/_2$–$^3/_4$ mm diam., atro-olivaceis, carnosis, dein erumpentibus, discoideis v. subcollapsis; sporophoris simplicibus, validis, 20–30 = 3–4, continuis, viridulo-granulosis, dein hyalinis, subæqualibus; conidiis subfalcatis, obtusis, viridulo-hyalinis, granulosis, continuis, 25–35 = 5-7. 8134

Hab. in ramis emortuis Fraxini, London, Canada Amer. bor. (Dearness).

2. **Epidochium petiolorum** Kell. et Fautr. in Rev. myc. 1890, p. 168. — Sporodochiis erumpentibus, minutis, vivis læte roseis; sporodochiis simplicibus, fasciculatis, longitudine variis, 3 μ. diam. 8135

Hab. in petiolis dejectis Fraxini excelsioris, Noidan, Côte-d'Or Galliæ (KELLERMAN).

3. **Epidochium Eucalypti** Cooke Grev. XVI, p. 71. — Sporodochiis erumpentibus, gregariis, sessilibus, atris, tremelloideis, discoideis, plerumque concavis; basidiis filiformibus, ramosis, fuscis; conidiis elongato-ellipsoideis, 10–14 ≃ 3-4, utrinque rotundatis, hyalinis, continuis. 8136

Hab. in foliis emortuis Eucalypti, California Amer. bor.

4. **Epidochium disciforme** (Fr.) Sacc. Miscell. Mycol. n. 2192. *Cryptomyces disciformis* Fr. Cfr. supra p. 48. — Sporophoris fasciculatis, filiformibus e strato proligero lutescente oriundis in clavulam ovatam 10-15 ≃ 8-9 apice dilatatis; sporis..... 8137

Hab. ad ramos Ulmi, Malmedy in Rhenogovia (LIBERT). — Stirps iterum inquirenda in exempl. orig. Friesianis.

CHÆTOSTROMA Corda. — Sacc. Syll. IV, p. 749.

1. **Chætostroma nigricans** Speg. Guar. I, p, 176. — Sporodochiis amphigenis, densiuscule sparsis, atro-olivaceis, e turbinato globosis, minutissimis, 40–70 μ. diam., sessilibus, margine parce ciliatis; setis minutis, rigidulis, cylindraceo-attenuatis, apice obtusiusculis, basi subbulbosis, 50-85 ≃ 3-5, fuligineis, 5-10-septatis, non constrictis; contextu tenuissime membranaceo, olivaceo, anhisto; basidiis cylindraceis, 7–8 × 4, basi coalescenti evanida, apice cuneato-acutatis, pallide chlorinis; conidiis cylindraceis, utrinque rotundatis, 12–15 × 4-4,5, continuis, hyalinis. 8138

Hab. ad folia languida v. emortua adhuc pendula Smilacis sp. in silva Caá-guazù Brasiliæ.

2. **Chætostroma atrum** Sacc. Syll. IV, p. 749. — Huc spectat *Coccularia graminis* Cooke in Rav. F. Am. n. 557, in foliis Eulaliæ in Amer. bor.

3. **Chætostroma Holoschœni** Passer. Diagn. T. N. V, n. 55. — Sporodochiis globoso-pulvinatis vel interdum cylindricis, atris, setulis olivaceis, spathulatis, sursum attenuatis, tunicatis 180 ≃ 4 basi parce vestitis; conidiis innumeris, cylindraceo-fusiformibus 6-8 ≃ 1,5–2 olivaceis, non vel obscurissime guttulatis, in sporophoris filiformibus dense fasciculatis 25 μ. longis acrogenis. 8139

Hab. in foliis fracidis Scirpi Holoschœni, Vigheffio in torrente Baganza, Prov. di Parma Ital. bor.

MYROTHECIUM Tode — Sacc. Syll. IV, p. 750.

1. **Myrothecium pulchellum** Speg. Guar. I, p. 176. — Sporodochiis 8140
amphigenis, sparsis, discoideo-repandis, minutis 100-300 μ. diam. tenuibus, intense viridi-olivaceis, applanatis, zona alba, tomento-sulo-radiante marginatis, matrici arcte adnatis, contextu prosenchymatico; sporophoris cylindraceis, breviusculis, gracillimis, 20-25 ≃ 1, in conidia catenulata apice productis; conidiis cylindraceis utrinque truncatis ac minute 1-guttulatis, 12-13 ≃ 1,5, levibus, dilutissime chlorinis.

Hab. ad folia exsiccata adhuc pendula Luheæ grandifloræ in silvis pr. Guarapì Brasiliæ.

2. **Myrothecium medium** Sacc. et Wint. Hedw. 1883, p. 14. — Spo- 8141
rodochiis gregariis subsuperficialibus, globoso-depressis, dein subumbilicatis, nigris, vix $^1/_4$ mm. diam.; sporophoris fasciculatis, bacillaribus, 25-30 ≃ 3-3,5, conidio pallidioribus; conidiis fusoideis, rectis, 13-14 ≃ 3-5-4, olivaceo-fuscis.

Hab. in scapis aridis pr. Salem Badeniæ. — Inter *M. ellipsosporum* et *M. trochiloides* medium.

TRICHOSTROMA Corda — Sacc. Syll. IV, p. 752.

1. **Trichostroma fuscum** Karst. Symb. XX, p. 100. — Sporodochiis 8142
gregariis, verruciformibus, convexis, siccis, corneis, atro-fuscis, 1,2 mm. lat.; sporophoris undique erumpentibus, dilute olivaceo-fuscis, erectis, septatis, 6 μ. cr.; conidiis oblongatis, ellipsoideis vel ellipsoideo-sphæroideis, hyalinis, 4-6 ≃ 2-4.

Hab. in caulibus aridis Solidaginis canadensis, Mustiala Fenniæ. — *T. olivaceo* affine.

2. **Trichostroma Quercus** Rich. Cat. Champ. Marn. n. Suppl. p. 551. 8143
— Gregarium, minutissimum, sphæricum, sordide flavo-viridulum, primo glabrum, dein, apice pezizoideo-disciformi excepto, pilis nigris hirtum; sporophoris hyalinis, ramosis; conidiis ovoideis, 3 μ. long.

Hab. in ligno denudato et udo ramorum Quercus, St. Amand Galliæ.

Sect. 2. **Didymosporæ** Sacc.

PUCCINIOPSIS Speg. F. Guar. II, n. 202 (Etym. *Puccinia* et *opsis* aspectus). — Sporodochia subglobosa, minuta, superficialia, biogen-

na. Conidia dense constipata, majuscula, clavulata, didyma, stipite brevissimo suffulta, fuscescentia.

1. **Pucciniopsis guaranitica** Speg. F. Guar. II, n. 202. — Maculis amphigenis elongatis indeterminatis 1-10 mm. long. 1-5 mm. lat. arescentibus, zona purpurascente cinctis; sporodochiis sæpius hypophyllis, densiuscule in centro macularum aggregatis globosis minutissimis 50-150 μ. diam. olivaceis; conidiis pucciniæformibus didymis obscure olivaceis, clavulatis 20-28 × 10, apice late v. subtruncato-rotundatis, mucrone pallidiore obtuso plus minusve evoluto auctis, loculo supero crasse tunicato, levibus, glabris, inferne stipitibus mox coalescentibus nucleum carnosulum efformantibus, pallidioribus suffultis. 814

Hab. ad folia viva Cocoes Yatai in montanis Sierra de Peribebuy Brasiliæ. — Species pulcherrima conidiis teleutosporas *Pucciniæ* cujusdam perfecte æmulantibus.

EPICLINIUM Fr. — Sacc. Syll. IV, p. 754.

1. **Epiclinium phacidioides** Sacc. et Romell sp. nov. — Sporodochiis amphigenis erumpentibus, discoideis, minutis, nigricantibus, phacidioideis, 0,2 mm. diam.; hyphis fasciculatis, suberectis, septatis, 60-90 × 5-6, olivaceo-fusco-ochraceis e basi stromatica cellulosa obscuriore oriundis, apice in conidia ovato-oblonga sæpius constricto-didyma, utrinque rotundata, 8-15 × 6-8 abeuntibus. 8145

Hab. in foliis ramulisque emortuis Arctostaphyli prope Upsala Sueciæ (L. Romell).

Sect. 3. Phragmosporæ Sacc.

EXOSPORIUM Link — Sacc. Syll. IV, p. 755.

1. **Exosporium sociatum** Ell. et Ev. Proc. Acad. Phil. 1891, p. 93. — Sporodochiis amphigenis, erumpentibus, minutis, demum ob conidia numerosa subpulvereis; sporophoris conidia æquantibus; conidiis oblongis, rectis v. subcurvis, utrinque sæpius subacutis, 12-15 × 4-5, atro-brunneis, 3-septatis. 8146

Hab. in foliis Aceris rubri, Bayon Chene, Louisiana Amer. bor. (Langlois).

2. **Exosporium pusillum** Karst. Symb. XVII, p. 164. — Sporodochiis gregariis v. confertis, subinde confluentibus, subsuperficialibus, atrofuscis, pusillis; conidiis clavatis, 6-septatis, fuligineis, 39-50 × 9. 8147

Hab. in gemmis emortuis Alni glutinosæ pr. Vasam Fenniæ.

3. **Exosporium deflectens** Karst. Fragm. Myc. Fenn. XXIII, p. 2.— 8148
Sporodochiis sparsis, epiphyllis, sphæriæformibus, rotundatis, obovoideis vel difformibus, erumpenti-superficialibus, glabris, olivaceo-atris, circiter 0,2 mm. diam.; conidiis oblongatis vel cylindraceis, rectis utrinque obtusissimis, 3-septatis, ad septa vix vel leniter constrictis, dilute flavo-fuligineis, pellucidis, 14-20 × 5-6; basidiis cylindraceis, brevibus, dilute fuligineis.

Hab. in foliis emortuis Juniperi communis circa Mustiala Fenniæ, passim (Onni Karsten). — Ad *Coryneum* vergit. Cum Læstadia juniperina (Ellis) Sacc. mixtim crescit.

Sect. 4. Dictyosporæ Sacc.

SPEGAZZINIA Sacc. Syll. IV, p. 758.

1. **Spegazzinia tessarthra** (B. et C.) Sacc. Syll. IV, n. 3582. — Huc, teste Cooke, cui assentior, spectat *Triposporium cristatum* Pat. Bull. Soc. Myc. 1888, p. 125, t. XX, f. 7, pariter nascens in foliis Graminum in Venezuela.

FUNGI FOSSILES

AUCTORE

ALOYSIO MESCHINELLI S. D.

PRÆFATIO

In terrestri compagine inter copiosa et splendida herbaria, quibus natura nostrum globum diversis ævis geologicis exornavit, fungi quoque vestigia haud dubia reliquerunt.

Ab ævo carbonifero vegetabilia hæc per posteriores geologicas series semper et numero et elementis augescunt quoad ad præsens ævum perveniant, quo maximum incrementum consequuta esse videntur.

Quorum vegetabilium pauca post carboniferum ævum vestigia invenies, nam tertiarium attingere opus erit, ut hunc vegetabilium ordinem et optime explicatum et conspicuo tam generum quam specierum numero descriptum invenire possimus.

Species hæ tertiariæ tot sunt ut specierum omnium anteriorum simul collectarum numerum longe superent.

Ævo quaternario specimina huius vegetabilis ordinis invenimus, quæ, etsi numero pauca, tamen ad familias pertinent, quarum structura superior et multiplex est.

Verum maximam eorum explicationem fungi nostro hoc ævo attigerunt, quo evolutionis apice forsitan consequuto, per intelligentes assiduasque illustrium mycologorum investigationes extraordinarium momentum adsumpserunt.

Ab expositis colligimus fungorum explicationem perpetuo ascendenti motu augere; ita ut hodie explicatio hæc culmen attigerit.

Quod ex variis causis, præcipue vero ex physicis condicionibus, in quibus vegetabilia hæc versabantur, proficisci videtur, ut liceat sane adfirmare eorum explicationem auctam esse postquam cosmicæ condiciones nostri planetæ ad præsentem rerum ordinem accesserunt. Et sane thermicæ et udometricæ vicissitudines nostri ævi amplioris propagationis potestatem præbent huic floræ, quæ vitam viresque ex aliena dissolutione sumit.

Idque ex hodiernæ mycologicæ floræ studio satis comprobatum videtur. Enim vero harum cryptogamarum plura magisque varia specimina illis in regionibus latitudinibusque invenies, quibus temperaturæ humiditatisque variationes juxta diversa anni tempora maximæ notantur.

Ex cosmicarum condicionum studio, quibus carbonifero ævo noster planeta utebatur, eo scilicet ævo, quo primitus fungi apparuere, facile eruitur ipsas ad hæc vegetabilia augenda minime aptas fuisse. Equidem ævo illo, calore et humiditate æque in orbe distributis, nondum climaticæ variationes inceperant.

Quo caloris tenore ætate jurassica et oolitica permanente, nulla quoque anni temporum distributio habetur.

Ævo cretaceo tantum tenor hic perturbatur et in orbe levissima vicissitudo incipit. Hoc anni temporum indicium primum.

Nihilominus tertiario ævo tantum et præcipue extremis ejusdem ævi momentis incipiunt anni temporis vicissitudines; tunc tantum cosmicæ condiciones iis, quibus planeta noster hodie utitur, aliqualiter comparari possunt.

Fungorum igitur explicatio eorumque consequens propagatio longe aliter ac fortuita apparet; immo etiam cosmicis phænomenis in terrestri superficie subsequutis intime connexa.

Fossilium fungorum inopia præ aliis vegetabilibus omnibus alia recte panditur ratione, idest harum cryptogamarum structura; ex illis enim multæ, quippe quæ natura ipsa molles et carnosæ et ideo lapidefactioni ineptæ, perpaucissima sui vestigia reliquerunt. Et sane ex profusissima copia mollium fungorum hodie in orbe vigentium pauci admodum in statu fossili supersunt; attamen antiqua eorum existentia nobis ex insectorum reliquiis, quæ cum exceptione carnosis fungis sese nutricant, probatur.

Et ideo ex fossilibus fungis maxima pars ad epyphyllas species reducitur, quæ tunc etiam, prout in præsenti, illorum ingentium nemorum plantas frequentes habitabant.

Nobis autem de fungis singillatim loquentibus dubitatio illa silentio prætereunda non erit, quæ etiam nunc non modo ad generum sed et ordinum et tribuum characteres spectat, in quæ a palæophytologis distribuuntur. Quæ incertitudo ab ipsa fossilium conservationis condicione pendet, quippe qui examini microscopico fere semper inepti, ut in classes redigantur, characteres tantum morphologicos externos præbeant.

Characteres vero isti in epiphyllis speciebus ad perpauca rediguntur; scilicet generalis forma, margo, papillarum numerus, concavitas seu convexitas media, ostiolum, sulcus, rima longitudinalis, areola circumstans, peritheciorum color, mutua dispositio, eorum super folii paginas situs, ii sunt characteres externi, parum quidem specifici, tamen plus minusve generibus et ordinibus diversis communes. — Characteres generum ad fungos fossiles in classes redigendos adhibitos examinanti facile compertum erit eosdem characteres, quibus ad eorum distinctionem utimur, sæpenumero fallaces, ita ut vera et secundum rationem divisio minime institui possit.

Ita exempli gratia ad genus *Sphæria* rediguntur formæ, quæ ob externos characteres æque adscribi possent tum hodiernis generibus *Sphærella*, *Læstadia*, *Leptosphæria* etc., ex *Sphæriaceis*, tum generibus *Septoria*, *Phyllosticta*, *Ascochyta* etc., ex *Sphæropsideis*; item generi *Xylomites* adscripta fuerunt

specimina, quæ ob characteres morphologicos externos æque pertinere possent ad genera *Stegia*, *Actinothyrium*, *Æcidium*, *Uredo*, *Phacorhiza*, *Uromyces*, *Stictis* etc. Unde quamvis audax non tamen improbanda illa cl. Massalongi [1]) sententia, quæ ait: Stricte loquendo omnia fungorum parasiticorum specimina hucusque e tertiariis formationibus effossa describenda essent sub unico nomine, exempli gratia *Fungites*, ut olim Algæ *Algacites*, folia omnia dubia *Phyllites*, fructus *Carpolithes*, flores *Antholithes* vocabantur.

His de causis omnibus nominibus, quibus fungorum genera exprimuntur, desinentiam *ites* adjungendam censui, ut clarius ab adhuc vigentibus distinguerentur, quibus quamvis intimis conjungantur rationibus, tamen absolute æquari nequeunt.

Quod si hæc de characteribus generalibus, quid de specificis loquendum?

Mycologiam fossilem a multis, quibus obnubilatur, erroribus et tenebris nonnisi exactis observationibus ac exemplarium, quibus singulæ species constitutæ fuere, comparatione expurgari posse puto. Tunc tantum taxonomiam fungorum fossilium satis veridicam habebimus, quæ sane absolutissima evadet quum microscopii ope interna fungillorum constitutione inspecta organorum carpomorphorum structuram singillatim perscrutari licebit. Nonnullæ quidem species tali examini jam subjectæ fuere, at major earum pars scientificis subtilibusque his investigationibus se subtraxit, adeo ut certa ratione ad earum specificam essentiam et perfectam in classes distributionem determinandas adhuc careamus.

Et forsan quis mihi fungorum fossilium monographiam conscribenti objiciet prius species jam recognitas et rationes, quibus earum distributio innititur, cribrandas fuisse. Sed opus hoc, utilissimum sane, non æque facile illi, cui exemplaria, e quibus species istæ depromptæ fuerunt, desunt, dum icones tantum, illæque minus propriæ atque non satis perspicuæ (nisi aliquando et hæc omnia desiderentur), in præsto sunt ita ut diagnosi deficienti et nonnullarum modo specierum inniti tantum possit. Mihi igitur, quas vehementer optaveram, systematis fungorum fossilium emendationes peragere, quamvis totis viribus huic operi incumberem, impossibile fuit.

Clarissimus quoque Heer [2]) promptæ et subtilis horum vegetabilium disquisitionis necessitatem adstruens, multas ipsorum antiquas species hodiernis apprime respondere autumat. Nostri quoque ævi palæophytologis [3]), nullis

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1) *A. Massalongo* et *G. Scarabelli*. — Studi sulla flora fossile e Geologia stratigrafica del Senigalliese, Imola 1859, p. 81.

2) *Heer* Fl. tertiaria Helv. III, p. 242 et 256.

3) *Schenk A.* Die fossilen Pflanzenreste, Breslau 1888, p. 16. — *Solms-Laubach H.* Einleitung in die Palaeophytologie vom botanischen Standpunkt, Leipzig 1887, p. 35. — *Lesquereux L.* Contributions to the fossil Flora of the Western Territories, P. II, The Tertiary Flora, pag. 33 (Un. St. Geol. Survey of the Territories, VII, 1878). — *Schimper und Schenk.* Palæophytologie pp. 70-72 (Handbuch der Palæontologie von K. A. Zittel, II Abth., München 1877-90). — *Geyler H. Th.* Ueber fossile Pflanzen von Labuan (Vega-expeditionens vetenskapliga arbeten, IV, p. 487).

scientiæ botanicæ regulis species usque adhuc descriptas inniti sentientibus, plenissime et ego subscribo.

Quidquid tamen de hac re notatu digna reperi, hæc colligenda duxi, aliquantulum utilitatis palæophytologiæ conferre putans, quia etsi istorum vegetabilium reliquiæ botanicæ scientiæ bonum parum augent, tamen ceu chronologicæ comparationis modos ad consimiles species quæ, in posterum eruerentur, describendas et eorum omnium phylogeneticam historiam enarrandam, quammaxima opportunitate adhiberi posse censui.

His igitur fretus rationibus brevi specierum ad nostram usque ætatem detectarum descriptioni, operum titulo, in quibus descriptio ipsa reperitur, numquam silentio prætermisso, locorum, naturæ et ætatis formationum ad quam spectant, indicia semper adjungenda curavi.

Observationes demum majori cujusque speciei declarationi inservientes et eas, quas potui, cum hodiernis aut aliis antiquis quoque speciebus comparationes non prætermisi.

Ceterum hæc mea, quæcumque sit, opella illi, qui majori ingenio præditus elucubrationi subtiliori horum vegetabilium perutilem disquisitionem instituet, facilius saltem præbebit iter.

Nunc autem priusquam de alio loquar mihi sunt maximæ gratiæ agendæ cl. **F. Lampertico,** vicetino, regni italici senatori, cl. **P. A. Saccardo,** regi Horti botanici patavini præfecto et cl. doctori **Lester F. Ward** Washingtonensi, qui consilio et officiis mihi maxime suffragati sunt.

Cohors 1. **Hymenomyceteæ**

AGARICITES L. (*Agaricus*) sensu latissimo.

1. **Agaricites Wardianus** Mesch., Di un probab. agaric. mioc., Atti Soc. Ven. Trent. Di Sc. Nat., vol. XII, fasc. II, pag. 312, t. VIII, Mesch. et Squin. Fl. tert. it. p. 7. — Pileo convexo-expanso, margine acutiusculo, 8 mm. lato, centro 3 mm. crasso; hymenio..... non distincto; stipite subcentrali, tereti, obclavato, 7 mm. longo, prope medium 3 mm. crasso. 8149

   Hab. in marga cinerea aquitaniana Chiavon in agro vicetino Italiæ bor.

LENZITITES Fries (*Lenzites*), Sacc. Syll. V, p. 637.

1. **Lenzitites Gastaldii** Heer in Gastaldi, Cenn. vert. foss. p. 38 (*Lenzites*), Eug. Sismonda, Matér. p. servir à la Paleontol. du terr. tert. du Piémont; Memor. d. Acad. d. scienze di Torino, 1865. Schimp., Tr. Pal. Veg., V, I, p. 144, Mesch. et Squin. Fl. tert. it. p. 6. — Pileo dimidiato, superne anguste concentrice zonato-piloso, inferne coriaceo-lamelloso, lamellis robustis ramosis. 8150

   Hab. in fragmentis truncorum in formatione helvetiana, Collina di Torino Italiæ borealis.

ARCHAGARICON Hancock et Atthey, Foss. Fungi Northumb. Coal-Field, in Ann. Mag. Nat. Hist., 1869, n. 22, p. 226, t. IX. — Conceptacula forma varia sed plerumque orbicularia vel elliptica, plus minus depressa. Filamenta (hyphæ) ramosa hinc inde in vesiculas inflatas vel spinulis vel verrucis conspersa.

1. **Archagaricon bulbosum** Hancock et Atthey, Foss. Fungi Northumb. Coal-Field, in Ann. Mag. Nat. Hist., 1869, n. 22, p. 226, t. X. — Filamentis (hyphis?) circ. 25 μ. diam., ramis primariis subrectis, longis, leniter sinuosis, ramis secundariis valde contortis, involutis, confertis, raro papillosis, sæpe in vesiculam globosam magnam desinentibus, basi nodulis plerumque 2-3 minoribus superpositis, ramulorum diametro 3-4-plo præditis. 8151

   Hab. in stratis carboniferis Northumberland Britanniæ. — Sec. Cohn (Cfr. Bot. Jahresb. 1873, p. 435) cum filamentis adsunt corpuscula copiosa globosa v. ellipsoidea, forte sporæ.

2. **Archagaricon globuliferum** Hancock et Atthey loc. cit. — Filamentis magnitudine variis, majoribus circiter 12,5 μ. diam., levibus 8152

simul et ramulis rectis vel subsinuosis, nodulis numerosis, tubulorum diametro 5-6 majoribus, vesiculis sphæricis maximis 312 μ. diam. præditis.

Hab. in stratis carboniferis Northumberland Britanniæ. — Ab *A. bulboso* differt ramis rectis, levibus, minutis, nodulis numerosioribus et præcipue vesicularum magnitudine.

3. **Archagaricon radiatum** Hancock et Atthey loc. cit. — Filamentis magnis, 42 μ. diam., brevibus, levibus, subtortuosis, irregulariter e centris radiantibus, marginibus non semper parallelis, sed plerumque subirregulariter sinuosis. 8153

Hab. in stratis carboniferis Northumberland Britanniæ.

4. **Archagaricon dendriticum** Hancock et Atthey loc. cit. — Filamentis minutissimis, 1,6 μ. diam., dendritice cæspitosis, vesiculis magnis, ellipsoideis interpositis, apparenter terminalibus. 8154

Hab. in stratis carboniferis in Northumberland Britanniæ.

5. **Archagaricon conglomeratum** Hancock et Atthey, loc. cit. — Filamentis magnis, inæqualibus, 16,5 μ. vel ultra diam., interdum usque ad 8,3 μ. diam. constrictis, anastomosantibus, cellulis magnitudine variis, subinde numerosissimis conglomerato-conspersis. 8155

Hab. in stratis carboniferis, Northumberland Britanniæ.

POLYPORITES Fr. (*Polyporus*) sensu lato.

1. **Polyporites mollis** Fr. (*Polyporus*) — Sacc. Syll. VI, p. 113 — f. **succinea** Conw. Monog. d. Balt. Bernsteinb. 8156

Hab. in succino ad mare Balticum.

2. **Polyporites igniarius** Linn. (*Boletus*) Heer Die Pflanzen d. Pfahlb. Naturforschende Gesell. LXVIII Stük, Zürich 1866, p. 42 (*Polyporus*) Coppi Paleont. modenese p. 136, Sacc. Syll. VI, pag. 180 (*Fomes*). 8157

Hab. in formatione placentina vallis Tiepido in agro mutinensi Ital. bor. (Coppi).

3. **Polyporites nigricans** Fr. (*Polyporus*), Sacc. Syll. VI, pag. 180 (*Fomes*). 8158

Hab. in turfa (torba) ad lacum Fimon et in valle Fontega pr. Vicenza Ital. bor.

4. **Polyporites foliatus** Ludw. Jüngere Wetterauer Braunkohle in Palæontogr. vol. V, p. 85, t. XVI (*Polyporus*), Schimp. Tr. Pal. Vég. v. I, p. 143. — Fungus ligneus, pileo rugoso in zonas lamellatas concentricas diviso, lamellis in discum coadunatis; tubulis hymenii per stratus complures superpositis, canali cylindrico. 8159

Hab. in lignite pliocenica, Dorheim Wetteraviæ Germ. bor. — *Polyp. igniario* L. similis.

5. **Polyporites Sequoiæ** Heer Nachtr. z. mioc. Fl. Grönlands pag. 7, t. I, f. 1 *a*, Tert. Fl. v. Grönland p. 48. — Pileo suberoso, zonato radiatim striato. 8160

Hab. adhærens eidem petræ fragmento in quo adsunt ramuli Sequoiæ Sternbergi et nuculæ Biotæ; facillime crevit super truncos ejusdem Sequojæ, Netluarsuk Groenlandiæ.

6. **Polyporites lucidus** Leyss (*Boletus*), Mass. Fl. foss. Senig. p. 80 et nota, Sacc. Syll. VI, p. 157 (*Fomes*). 8161

Hab. in formatione quaternaria in agro bergomensi Ital. bor. ad ramos Salicis seu Populi.

7. **Polyporites vaporarius** Fries (*Polyporus*) — Sacc. Syll. VI, p. 311 (*Poria*) — f. **succinea** Conw. Monog. d. Balt. Bernsteinb. 8162

Hab. in succino ad mare Balticum.

8. **Polyporites sp.** Ludw. Ueb. mitteldeutsche Tertiarbildungen in Zeitschr. deutsch. geol. Gesell. IX, Bd. 1857, p. 184. 8163

Hab. in argilla miocenica (mayenciana?) Dorheim–Wülfersheim Wetteraviæ Germ. bor. — Loc. cit. nulla adest descriptio.

9. **Polyporites Bowmani** Lindl. et Hult. Foss. Fl. of Great Brit., vol. I, n. 65, Schimp. Tr. Pal. Vég. v. I, pag. 144, Ung. Gen. et Species p. 40, *Carpolithes umbonatus* Sternb. 8164

Hab. in stratis carboniferis Comitatus Denbigh, Britanniæ bor. — Potius piscis squamam vel molluscorum concham quam fungum refert.

DÆDALEITES Pers. (*Dædalea*), Sacc. Syll. VI, p. 370.

1. **Dædaleites quercinus** L. (*Agaricus*), Mass. Fl. foss. Senig. p. 80 et nota, Sacc. Syll. VI, p. 370 (*Dædalea*). 8165

Hab. in trunco Quercus formationis quaternariæ ad S. Bonifacio in agro veronensi Italiæ borealis.

2. **Dædaleites volhynicus** Eichwald Hist. nat. Lithuan. Volhyn. et Podol. 1820 (*Daedalea*), Lév. Considérat. mycol. p. 63. 8166

Hab. in sabulo tertiario, Bilka Volhyniæ Rossiæ.

TRAMETITES Fr. (*Trametes*), Sacc. Syll. VI, p. 334.

1. **Trametites Pini** Brot. (*Boletus*) — Sacc. Syll. VI, p. 345 (*Trametes*) — f. **succinea** Conw. Monog. d. Balt. Bernsteinb. 8167

Hab. in succino ad mare balticum.

HYDNITES L. (*Hydnum*), Sacc. Syll. VI, p. 430.

1. **Hydnites argillæ** Ludw. Palæontogr. v. VIII, p. 57, t. VIII, f. 1 *a-e* (*Hydnum*), Ettingsh., D. foss. Fl. d. ält. Braunkohl. d. Wett. (Sitz. d. k. k. Ak. d. Wiss. 1868, p. 815), Schimp. Tr. Pal. Vég. v. I, p. 143. — Pileo irregulariter ovali, convexo, centim. 6 metiente, aculeis tenuibus longis, stipite centrali. 8168

   Hab. in argilla aquitaniana Münzenberg Hassia Darmst. Germaniæ centr.

2. **Hydnites antiquus** Heer Fl. tert. Helv. v. III, p. 149, t. CXLII, f. 24 (*Hydnum*), Schimp. Tr. Pal. Vég. v. I, p. 143, t. I, fig. 24. — Aculeis brevissimis, papilliformibus, geminis, regularibus. 8169

   Hab. in marga aquitaniana Rochette prope Lausannam Helvetiæ, rarissime. — *H. suaveolenti* Scop. similis.

Cohors 2. **Phycomyceteæ**

PERONOSPORITES Corda (*Peronospora*), Sacc. Syll. VII, 1, p. 244.

1. **Peronosporites antiquarius** Smith in Gardener's Chronicle 1877, Oct. 20, vgl. Academy Nov. 17, Geolog. Record for 1887, p. 377, Botan. Jahresb. VII, Jahrg. 1879, p. 135, Massee Brit. Phyc. p. 213, f. 136. — Mycelio varie ramoso, septato, 7-9 μ. cr.; oogoniis in ramulis brevibus, sæpius acrogenis, rarius intercalaribus, globosis v. basi leniter tenuatis, 40-60 μ. diam. 8170

   Hab. in axi vasculari Lepidodendri formationis carboniferæ West Jorkshire Angliæ.

PROTOMYCITES Ung. (*Protomyces*), Sacc. Syll. VII, 1, p. 319.

1. **Protomycites protogenes** W. Sm. Diseas. of Field and Gard. Crops p. 333, f. 140, Massee Br. Fungi Phyc. p. 212, f. 135. — Mycelio parcissimo 18 μ. cr.; oogoniis sphæricis, circ. 200 μ. diam., oosporis solitariis 130 μ. diam. 8171

   Hab. in radiculis Lepidodendri in formatione carbonifera Angliæ.

Cohors 3. **Hypodermeæ**

PUCCINITES Pers. (*Puccinia*), Sacc. Syll. VII, 2, p. 600.

1. **Puccinites lanceolatus** Ettingsh. Die tert. Fl. v. Haering in Tirol. Abh. k. k. Geol. Reichsanst. v. II, Wien 1855, pag. 26, tab. IV, 8172

f. 11. — Epiphyllus, maculas longitudinales formans 3-8 mm. long., 0,5-1 lat.

Hab. in foliis plantæ cujusdam monocotyledoneæ in marga bituminosa tongriana ad Haering Tiroliæ (Sec. cl. Ettingshausen propter dispositionem macularum Pucciniam Graminis et P. arundinaceam in mentem revocat).

PHELONITES Fr., *Æcidium* Auct. p. p.

1. **Phelonites lignitum** Fresen. Ueber Phelon. lign. Palæont. vol. VIII, p. 155, t. LXII, f. 1-15, Ettingsh. D. foss. Pfl. ält. Braunkohl. Wett. Sitz. k. k. Ak. Wien, 1868, pag. 14. — Pseudoperidiis rotundis, elongatis v. irregularibus, interdum e mutua pressione triangularibus, usque ad 8 mm. metientibus, minute areolatis, brunneolis, subinde ad viridem vergentibus; æcidiosporis irregulariter angulosis, sæpius hexagoniis, 55,5-83 μ. diam., levibus. 8173

Hab. in fragmento semina Glyptostrobi continente in lignite Salzhausen et Bommersheim in agro vogelsbergensi Hassia Darmst. Germ. centr. — *Æcidio strobilino* viventi affinis.

ÆCIDITES Pers. (*Æcidium*), Deb. et Ett. D. Urw. Thalloph. d. Kreideg. v. Aachen u. Maestricht Denksch. k. Ak. der Wiss. XVI Band, p. 312, Sacc. Syll. VII, 2, p. 774.

1. **Æcidites stellatus** Deb. et Ett. D. Urw. Thalloph. d. Kreideg. v. Aachen u. Maestricht Denksch. k. Ak. d. Wiss., XVI Band, p. 212, t. III, f. 2, 3. — Pseudoperidiis coacervatis, ad 5-7 irregulariter stellatim in lamina folii dicotyledonei inferiore dispositis, circ. 0,5 mm. diam. 8174

Hab. ad folia Dryophylli in argillis arenacei dicti aquisgranensis. *Rhytismiti Populi* Heer quodammodo similis.

2. **Æcidites Rhamni-tertiariæ** Engelh. Ueb. d. foss. Pfl. d. Süsswass. v. Grasseth ein neu. Beitr. z. foss. Fl. Böhmens (*Æcidium*) in N. Acta Ac. Leop.-Carol. Halle 1881, Bd. XLIII, n. 4, p. 283, t. II, (XI), f. 1. — Pseudoperidiis depresse poculiformibus, ad 0,5 mm. maximum metientibus, plerumque nervicolis sed passim internerviis, copiosissimis, folium demum hinc inde inæqualiter elevantibus. 8175

Hab. in arenaria tongriana prope pagum Grasseth ad Falkenau Bohemiæ, ad folia Rhamni Rossmässleri Ung. — Species *Æcidio Rhamni* Pers. ad folia Rh. Frangulæ L. hodie vigenti valde similis.

3. **Æcidites subcornutus** Goepp. Tert. Fl. Schossnitz p. 1, t. I, f. 18 8176

(*Æcidium*) Tert. Fl. Insel Java p. 150. — Pseudoperidiis maculosis, margine lacinioso, laciniis cylindricis elongatis.

Hab. ad folia Quercus in argilla cinerea tortoniana Schossnitz prope Vratislaviam. Mac. circ. 3-7 mm. diam. *Æc. cornutum* in mentem revocat.

Cohors 4. **Pyrenomyceteæ**

EUROTITES Link (*Eurotium*), Sacc. Syll. I, p. 25.

1. **Eurotites elegans** Göpp. u. Menge in Göpp. Ueb. Bernsteinflora Monatsber. Kön. preuss. Ak. Wiss. Berlin 1853, pag. 453 (*Eurotium*). 8177

Hab. in succino Borussiæ. — Loc. cit. nulla adest descriptio.

ROSELLINITES De Not. (*Rosellinia*), Sacc. Syll. I, p. 252.

1. **Roselinites congregatus** (Beck) Engelh. Ueb. Ross. congreg. Beck sp., eine neue Pilzart a. d. Braunkohlenf. Sachs. Sitz. Ges. Isis in Dresden 1887, Abh. 4, t. I, fig. 1-9, in Bot. Centralbl. 1888, II, p. 304, *Cucurbitariopsis congregata* Beck Oligocän v. Mittweida, Zeitschr. deutsch. geol. Ges. XXXIV, 4, Berlin 1883, p. 752. — Peritheciis glabris, plerumque in acervulos dense confertis, nigris, nitentibus obtuse conicis, basi orbiculari donatis, apice disco plano, margine subelevato, circulari coronatis, ostiolo papilliformi, e disci centro oriente; ascis non visis; sporidiis continuis, brunneis, elongatis, plerumque subincurvis. 8178

Hab. in formatione lignitica oligocenica Saxoniæ (H. Engelhardt) et in «Flötz» Brandis pr. Lipsiam Saxoniæ (Beck).

LÆSTADITES Auersw. (*Læstadia*), Sacc. Syll. I, p. 420.

1. **Læstadites Nathorstii** Mesch. conf. Eriksson in Nathorst Fl. foss. du Japon Kongl. Sv. Vet. Ak. Handl. vol. 20, n. 2, pag. 75, t. I, f. 2, 2*a*. — Peritheciis sparsis, sphæroideis, atris, $^1/_3$-$^1/_2$ mm. latis; ascis ovoideis, 26-30 mm. longis; sporidiis (6-nis) hyalinis, oblongatis, 12-14 mm. longis, 6-10 mm. crassis, simplicibus. 8179

Hab. in folio indeterminato in argilla postpliocenica Mogi Japoniæ. — Perithecia in icone fere circulariter et inter sese approximate disposita.

LEPTOSPHÆRITES Ces. et De Not. (*Leptosphæria*), Sacc. Syll. II, pag. 13.

1. **Leptosphærites Lemoinii** Ch. Richon Soc. Botan. de France v. XXXII, 1885, p. VIII, t. X. — Fungus ascophorus; peritheciis simplicibus, atris, levibus, nitidulis, sparsis, semiemergentibus, hemisphæricis, ostiolo crasso, pertuso instructis, nucleo fulvo; ascis et paraphysibus non visis; sporidiis fusoideis, curvulis, triseptatis, loculo pænultimo protuberante, fuscis, 25 μ. longis; fungus spermogonium: spermogoniis, magnitudine et forma peritheciorum, spermatia minutissima, simplicia, allantoidea, in series concatenatas includuntibus. 8180

Hab. in culmis vel foliis Monocotyledoneæ fossilis cujusdam, prope Reims Galliæ.

TREMATOSPHÆRITES Fuck. (*Trematosphæria*), Sacc. Syll. II, p. 115.

1. **Trematosphærites lignitum** (Heer) Beck Oligocän v. Mittweida Zeitschr. Deutsch. geol. Gesell. XXXIV Bd., Hft 4, p. 752 (*Trematosphæria*), *Sphæria lignitum* Heer Foss. Fl. of Bovey Tracey Phil. Trans. MDCCCLXII, t. LV, f. 1, Pengelly et Heer, The lign. form. Boveg Tracey, Devonshire p. 29, t. IV, f. 1-3, Ettingsh Die foss. Fl. d. tert. Beck. v. Bilin I, Deukschr. k. Ak. Wien 1866, p. 85, Schimp. Tr. Pal. Vég. v. I, p. 133, t. I, f. 16 *b, c.* — Peritheciis gregariis, liberis, conicis, nigris, apice nitidis, papillatis, ostiolo minuto circulari pertusis; sporidiis fusoideis, constricto-2-3-septatis, raro 1-septatis, 32-42 ≃ 9-11. 8181

Hab. in cortice Sequoiæ Couttsiæ?, Bovey Tracey, Devonshire Brit. austr. in cortice Glyptostrobi europæi Heer, Priesen, prope Bilin Bohemiæ in argilla plastica mayenciana. — Ex grege *Trematosphæriæ pertusæ,* etiam *Amphisphæriæ umbrinæ* valde similis, a qua magnitudine minori et septatione differt.

SPHÆRITES Hall. (*Sphæria*) sensu latissimo. — Omnes species dubiæ, nam, ignota fructificatione, nescimus utrum ad Sphæriaceas, an ad Sphæropsideas pertineant.

I. *Foliicolæ.*

1. **Sphærites deperditus** Heer Fl. tert. Helv. vol. III, p. 147, t. CXLII, f. 2 (*Sphæria*) Ettingsh. Beitr. z. Kennt. d. foss. Fl. v. Parschlug, Denkschr. k. Ak. Wiss. XXXVIII, Bd. I, Abth. p. 84, t. V, f. 3, 8182

Schimp. Tr. Pal. Vég. v. I, p. 132. — Peritheciis minutis, ovalibus, convexiusculis, nigris, sparsis, circ. 0,25 mm. diam.

Hab. ad folia Palæolobi Sotzkiani, in marga aquitaniana Monod pr. Lausanne, ad foliola Cassiæ hyperboreæ, in schisto margaceo tortoniano, ad Parschlug Steiermark.

2. **Sphærites persistens** Heer Fl. tert. Helv. vol. III, p. 147, t. CXLII, 8183
f. 14 (*Sphæria*), Schimp. Tr. Pal. Vég. v. I, p. 133, t. I, f. 17 *b*, *c*, *Phacidium persistens* Gaud. Fl. foss. Env. Lausanne Bull. Soc. Vaud. Sc. nat. vol. V, p. 360. — Peritheciis immersis, circ. 0,5 mm. diam., breviter ovalibus vel rotundato-disciformibus, ostiolo papilliformi.

Hab. ad folia Cassiæ phaseolitis, Monod Helvetia in marga aquitaniana.

3. **Sphærites Dalbergiæ** Heer Fl. tert. Helv. vol. III, p. 148, t. CXLII, 8184
f. 21 (*Sphæria*), Schimp. Tr. Pal. Vég. v. I, p. 133. — Peritheciis sparsis, majusculis, circ. 1 mm. diam. discoideis, ostiolo latiusculo pertusis.

Hab. ad folia Dalbergiæ retusifoliæ, in calcareo albo tortoniano Locle Helvetiæ, in topho vulcanico albo tortoniano Hohenkraehen, prope Muhlhausen Alsatiæ.

4. **Sphærites hyperboreus** Heer Mioc. Fl. Spitzb. p. 30, t. XIII, f. 41 8185
(*Sphæria*), Schimp, Tr. Pal. Vég. v. III, p. 431. — Peritheciis minutis, punctiformibus, orbiculatis, sparsis, ostiolo lato.

Hab. ad folia Rubi scabriusculi, in arenaria nigra miocenica cap. Staraschin Spitzberg. — *Sph. disperso* Heer similis.

5. **Sphærites Amygdali** Engelh. Tertiärfl. Jesuitengr. Nordböhmen 8186
Nova Acta Acad. Leop.-Carol. vol. XLVIII, n. 3, Halle 1885, p. 310, t. VIII, f. 10, 10*a* (*Sphæria*). — Peritheciis rotundatis, raro leviter angulosis, parvis, circ. 1 mm. metientibus, immersis, margine folii insidentibus, limbo nigro circumdatis.

Hab. ad folia Amygdali in schisto bituminoso aquitaniano Jesuitengrabens prope Kundratitz Bohemiæ borealis.

6. **Sphærites Weberi** Heer Fl. tert. Helv. vol. III, p. 302 (*Sphæria*), 8187
Rech. s. le climat et la Vég. du pays tert. pag. 105 et nota. — Peritheciis orbiculatis, supra subconcavis, medio ostiolo papilliformi perforato ornatis.

Hab. ad folia Amygdali peregrinæ, Vogelsberg pr. Fulda. — *Xylomiti umbilicato* Web. valde affinis.

7. **Sphærites Eucalypti** Ettingsh. Foss. Fl. v. Sagor, Denkschr. k. Ak. 8188
Wiss., Bd. XXXII, Wien 1872, pag. 161, tav. I, f. 8 (*Sphæria*),

Voss Wilh. Mat. z. Pilzk. p. 221. — Peritheciis partim sparsis, partim aggregatis, subglobosis, magnis, apice ostiolo latiusculo pertusis.

Hab. ad folia Eucalypti, in marga aquitaniana pr. Savine, apud Sagor Carnioliæ.

8. **Sphærites milliarius** Ettingsh. Die tert. Fl. v. Haering. Abh. k. k. 8189
Geol. Reichs. II Bd., Wien 1855, pag. 26, t. IV, f. 8, 9, *Sphæria milliaria* Engelh. Tertiärfl. Jesuitengr. in Nardböhmen, Nova Acta Acad. Leop.-Carol. vol. XLVIII, n. 3, Halle 1885, p. 309, t. VIII, f. 1. — Peritheciis simplicibus, discretis, minimis, punctiformibus.

Hab. ad folia Myrtacearum ad Haering Tiroliæ in marga bituminosa tongriana, in schisto bituminoso aquitaniano Jesuitengrabens pr. Kundratiz Bohemiæ borealis. — Parum a *Sph. punctiformi* Ung. diversus et fortasse cum illo ad *Sph. venisequum* Göpp. reijcendus sec. cl. Massalongo (St. sulla fl. foss. e geol. stratigr. d. Senigall. p. 84).

9. **Sphærites baccharicola** Sap. Dern. adjonct. à la Fl. foss. d'Aix en 8190
Provence p. 5, t. I, fig. 3 (*Sphæria*). — Peritheciis minutissimis, circ. 1-1,50 mm. diam., sparsis, orbiculatis, convexioribus, ostiolo centrali pertusis, secus nervos nervulosque præsertim insidentibus.

Hab. in foliis Baccharitis (*Lomatitis*) aquensis Sap. in schisto margaceo liguriano Aix in agro Narbonensi Galliæ.

10. **Sphærites concentricus** Mass. Lett. a Scar. p. 8, n. 2, Synops. Fl. 8191
foss. Senog. p. 4, Fl. foss. Senog. t. I, f. 17-18, *Sphæria concentrica* Baily Rep. of Comm. Tert. (Miocene) Fl. Basalt of North Ireland. Report 49th. Meet. Brit. As. Adv. Sc. at Sheffield London 1879, p. 164. — Peritheciis duplicibus, concentricis, umbonatis conicis prominulis, apice truncatis, papillatis, perforatis.

Hab. ad folia Cissi ulmifolii Mass., in marga gypsacea tortoniana Senogallia in agro umbro Italiæ centralis et in formatione miocenica ripæ orientalis fluminis Lough Neagh, prope Sandy Bay Irlandiæ septentrionalis.

11. **Sphærites atomarius** Mass. S. Piante foss. vic. pag. 58 Conspect. 8192
Fl. prim. bolc. p. 10. — Peritheciis punctiformibus, simplicibus, distinctis, in circulum concentrice dispositis, impressis, areolas 4-5 mm. diam. efformantibus.

Hab. ad folia Solandræ Heliadum Mass., in calcareo margaceo aquitaniano inferiori «Salcedo» in agro vicetino. Ital. bor. — *Sph. punctiformi* Pers. affinis.

12. **Sphærites cretaceus** Heer Fl. foss. arctica vol. VII, p. 1, t. LX, 8193

f. 2, 2 *b* et p. 35 (*Sphæria*). — Peritheciis numerosis, orbiculatis, 1-1,5 mm. latis, ostiolo rotundato pertusis.

Hab. ad folia Viburni zizyphoidis, in argilla rubra formationis cretacæ superioris Patoot Groenlandiae.

13. **Sphærites Palaeo-Sapindi** Ettingsh. Beitr. z. Kennt. d. foss. Fl. v. Parsch. in Steierm. Deukschr. k. Ak. Wiss. XXXVIII, Bd. I, Abth. pag. 85, t. III, f. 2, 3, 5 (*Sphæria*). — Peritheciis sparsis, immersis, orbiculatis, magnis, circ. 1 mm. diam., apice ostiolo minuto, fere punctiformi pertusis. 8194

Hab. ad foliola Sapindii Pythii, in schisto margaceo tortoniano ad Parschlug in Steiermark. — A *Sph. Mureti* Heer ostiolo minore distincta sec. cl. Ettingshausen.

14. **Sphærites Suessii** Ettingsh. Foss. Fl. v. Sagor. Deukschr. k. Ak. Wiss. Bd. XXXII, Wien 1872, pag. 161, t. I, f. 5, 6 (*Sphaeria*), Voss Wilh. Mat. z. Pilzk. pag. 221. — Peritheciis orbiculatis vel ellipticis, subplanis, nigris, distinctis v. sæpe confluentibus, in circulum 1,5-2 mm. diam. dispositis et maculam pallidam circumdantibus. 8195

Hab. ad folia Rhamni, in marga aquitaniana prope pagum Savine Carnioliæ (Austria).

15. **Sphærites Rhamni** Ettingsh. Die foss. Fl. d. Tert.-Beck. v. Bilin Denkschr. Ak. Wien XXVI, Bd. I, pag. 8, t. I, fig. 12 (*Sphæria*), Schimp. Tr. pal. vég. vol. III, p. 431. — Peritheciis subaggregatis, rotundato-ellipticis, circ. 1-2 mm. diam., paullulum convexis, apice ostiolo rotundato pertusis. 8196

Hab. ad folia Rhamni in argilla plastica mayenciana Priesen prope Bilin Bohemiæ. — *Sph. evanescens* Heer majorem peritheciorum convexitatem et majorem ostioli exiguitatem exhibet. Etiam cum *Sph. Mureti* Heer comparanda, sed species Heerii peritheciorum magnitudine, eorum immersione et majore ostioli latitudine diversa.

16. **Sphærites evanescens** Heer Fl. tert. Helv. vol. III, pag. 147, tab. CXLII, fig. 16, 17 (*Sphæria*), Schimp. Tr. pal. Vég. vol. I, p. 133, Engelh. Ueb. Cyprissch. Nordböhm. Zitz. naturw. Gesell. «Isis» Jahrg. 1879, p. 135, t. VII, fig. 1, *Phacidium evanescens* Gaud. Fl. foss. Env. Lausanne Bull. Soc. Vaud. Sc. nat. vol. V, p. 360. — Peritheciis sparsis, 1-2 mm. latis, rotundatis, convexis, sat magnis, ostiolo minuto pertusis. 8197

Hab. ad folia Rhamni Gaudini Heer in marga aquitaniana

Monod Helvetiæ et in argilla tortoniana inf. Linkes Egerufer inter Falkenau et Königswerth Bohemiæ.

17. **Sphærites sp.** Geyler Foss. Pfl. v. Labuan Vega-Exp. vetensk. Iakttagr. Bd. IV, Stockholm 1887, pag. 488, t. XXXII, f. 3, 3 *a* (*Sphæriopsis*). — Peritheciis minutis rotundatis, circ. $^1/_4$-$^1/_5$ mm. diam., irregulariter dispositis, ostiolo minutissimo pertusis. 8198

Hab. ad folia illis Evonymi Javanici Blume similia in argilla insulæ Labuan prope Borneo. — *Sph. pustulæ* Pers. quodammodo similis.

18. **Sphærites vetustus** Sap. Ess. s. l. vég. à l'ep. d. mar. Heers de Gelinden Mém. Acad. Roy. Belgique XXXV, 1873, p. 63, t. XII, f. 1, 1 *a* (*Sphæria*). — Peritheciis discoideis, exacte circularibus, convexis, margine angusto cinctis centroque ostiolo impresso notatis, 1-1,5 mm. diam. 8199

Hab. ad folia Celastrophylli Benedenii Sap. et Mar. in formatione eocenica inferiori (Mauduniana) Overbroeck pr. Gelinden in provincia Limbourg Belgii.

19. **Sphærites effossus** Heer Fl. tert. Helv. vol. III, p. 148, t. CXLII, fig. 19, 20 (*Sphæria*), Ettingsh. Beitr. z. Kennt. d. foss. Fl. v. Parschlug. Denkschr. k. Ak. Wien, XXXVIII, Bd. I, Abth. p. 84, Schimp. Tr. Pal. Vég. vol. I, pag. 133. — Peritheciis sparsis, omnino discoidois, circ. 0,5 mm. diam., planiusculis, ostiolo rotundato pertusis. 8200

Hab. ad folia Ilicis stenophyllæ, in calcareo tortoniano Oeningen Helvetiæ et in schisto margaceo tortoniano ad Parschlug Steiermark in eadem specie.

20. **Sphærites transiens** Sap. Dern. adjonct. à la Fl. foss. d'Aix en Provence pag. 7, t. I, f. 4 (*Sphæria*). — Peritheciis minutissimis $^1/_5$-$^1/_4$ circ. mm. diam., sparsim gregatis, convexiusculis, orbiculatis, ostiolo pertusis. 8201

Hab. in foliis Zanthoxyli aquensis Sap. in calcareo liguriano, Aix, Narbonne Galliæ.

21. **Sphærites Palæo-Lentisci** Ettingsh. Beitr. z. Kennt. d. foss. Fl. v. Parschl. in Steierm. Denkschr. ibid. p. 85, t. I, f. 3 (*Sphæria*). — Peritheciis sparsis et fere confluentibus, minutissimis, punctiformibus, nigris. 8202

Hab. ad folia Pistaciæ lentiscoidis Ung. in schisto margaceo tortoniano ad Parschlug, Steiermark.

22. **Sphærites venisequus** Göpp. Die Tertiärfl. v. Schossnitz in Schlesien pag. 3, t. I, f. 9, 10 (*Sphæria*), Tertiärfl. a. d. Insel Java 8203

p. 150. — Gregarius (ægre oculo haud armato visibilis); peritheciis inæqualibus, minutissimis, discretis, nervorum decursum sequentibus.

Hab. ad folia Rhois quercifoliæ Göpp. in argilla tortoniana Schossnitz prope Canth ad Vratislaviam. — Sec. cl. Massalongo (St. s. Fl. foss. e geol. stratigr. Senigall. p. 84) species hæc a *Sph. minuto* Göpp. et a *Sph. milliario* Ettingsh. non differt.

23. **Sphærites minutissimus** Ettingsh. Foss. Fl. Sagor Denkschr. k. Ak. Wiss. Math.-Nat. Cl. L, Wien 1885, p. 2, t. XXVIII, f. 2, 2 *a*, *b* (*Sphæria*). — Peritheciis sparsis, nonnumquam ad nervos secundarios seriatis, minutissimis, rotundatis, nigris, ostiolo conformi pertusis. 8204

Hab. ad fragmentum foliorum Rhois in marga aquitaniana prope pagum Savine Carnioliæ (Austria). — A *Sph. interpungenti* Heer propter maximam peritheciorum exiguitatem distincta.

24. **Sphærites Bumeliarum** Sap. Dern. adjonct. à la Fl. foss. d'Aix en Provence p. 5, t. I, f. 12 (*Sphæria*). — Peritheciis orbiculatis, minutis mm. 0,25 circ. diam. prominulis, sparsim paginæ inferiori foliorum *Bumeliæ* affixis, nervulis præsertim insidentibus aut etiam contiguis, ostiolo centrali parvulo donatis. 8205

Hab. in foliis Bumeliæ subspathulatæ Sap. in calcareo margaceo liguriano Aix, Narbonne Galliæ.

25. **Sphærites achreius** Ettingsh. Beitr. z. Kennt. d. foss. Fl. v. Parschlug in Steierm. l. c. p. 84, t. V, f. 4 (*Sphæria*), Foss. Fl. v. Leoben. Denk. k. Ak. Wiss. LIV Bd. I Abth. Wien 1888, p. 265, t. I, f. 7. — Sparsus, peritheciis minutis, punctiformibus, interdum confluentibus, ostiolo minuto rotundato pertusis. 8206

Hab. in foliis Achratis lycobromæ in argilla miocenica media Moskenberg prope Leoben Steiermark et in eadem specie in marga tortoniana Parschlug, Steiermark.

26. **Sphærites atomicus** Mass. Lett. a Scar. p. 8, n. 3 Fl. foss. Senig. t. I, f. 4, 5. — Peritheciis punctiformibus minutissimis, regularibus, discretis dispersisque, circ. $^1/_3$-$^1/_4$ mm. diam. 8207

Hab. ad folia Ardiniæ daphnoidis Massal. in marga gypsacea tortoniana Senogallia in agro umbro Italiæ med. — Sec. cl. Massalongo a *Sph. atomario* Mass. dispositione et concentricitate peritheciorum distinctus.

27. **Sphærites Duncani** Ettingsh. Beitr. z. Kennt. d. foss. Fl. v. Parschlug in Steierm. Denkschr. l. c. pag. 84, t. III, f. 4 *a* (*Sphæria*). — Peritheciis sparsis, omnino orbiculatis, immersis, apice ostiolo rotundato pertusis. 8208

Hab. in foliis Andromedæ glaucæ in schisto margaceo tortoniano ad Parschlug, Steiermark.

28. **Sphærites antheræformis** Heer Fl. tert. Helv. vol. III, p. 147, tab. CXLII, f. 8, 9 (*Sphæria*), Ettingsh, foss. Fl. Schönegg. Denkschr. k. Ak. Wien, LVII Bd. pag. 6, *Hysterium antheræforme* Schimp. Tr. pal. vég. vol. I. pag. 137, t. I, f. 23, 23 *b*. — Peritheciis minutis, oblongis, medio carinatis, sparsis, nigris, 1 mm. long., 0,5 mm. latis. 8209

Hab. ad folia Andromedæ protageæ in calcareo tortoniano Locle Helvetiæ, in argilla subflava Neu-Josephi-Tagbau prope Wies, Steiermark.

29. **Sphærites Vaccinii** Sap. Dern. adjonct. à la Fl. foss. d'Aix en Provence p. 6, t. I, f. 5 (*Sphæria*). — Peritheciis minutis $^1/_4$-$^1/_2$ mm, circ. diam., dense sparsis, convexis, orbiculatis, ostiolo apicali rotundo pertusis. 8210

Hab. ad folia Vaccinii elliptici Sap. in calcareo liguriano Aix, Narbonne Galliæ.

30. **Sphærites Ungeri** Ettingsh. Beitr. z. Kennt. d. foss. Fl. v. Parschl. in Steierm. Denkschr. k. Ak. Wien XXXVIII, Bd. I. Abth. p. 85, t. III, f. 1 (*Sphæria*). — Peritheciis sparsis, minutis (ex icone parum visibilibus), orbiculatis, subplanis, apice ostiolo latiusculo rotundato pertusis. 8211

Hab. ad folia Vaccinii Ungeri Ettingsh. in schisto margaceo tortoniano ad Parschlug in Steiermark. — A *Sphær. effosso* Heer peritheciis subplanis et a *Sphær. Dalbergiæ* Heer, peritheciis minoribus distinctos sec. cl. Ettingshausen.

31. **Sphærites Cinnamomi** Sap. Dern. adjonct. à la Fl. foss. d'Aix en Provence p. 4, t. I, f. 2 (*Sphæria*). — Peritheciis majusculis 2-3 mm. circ. diam., orbiculatis, convexiusculis, foliorum *Cinnamomi camphoræfolii* paginæ inferiori affixis, nervulis aut inter nervulos insidentibus. 8212

Hab. ad folia Ciannamomi camphoræfolii Sap. in schisto margaceo liguriano Aix Narbonne Galliæ.

32. **Sphærites circulifer** Heer Fl. tert. vol. III, pag. 147, tab. CXLII, f. 3 (*Sphæria*), Ettingsh D. foss. Fl. d. Tert. Beck. v. Bilin Denkschr. k. Ak. Wien, CLXXVI Bd. I, p. 8, t. I, f. 7, Schimp. Tr. Pal. Vég. vol. I, p. 133. — Peritheciis minutissimis, nigris, in circulum dispositis. 8213

Hab. ad folia Lauri principis in calcareo albo tortoniano Locle Helvetiæ, ad folia Betulæ argillæ plasticæ mayencianæ Prie-

sen prope Bilin Bohemiæ. — Dispositione peritheciorum *Gnomoniæ Coryli* similis.

33. **Sphærites dispersus** Heer Fl. tert. Helv. vol. III, pag. 147, tab. CXLII, f. 6 (*Sphæria*), Schimp. Tr. Pal. Vég. vol. I, p. 133. — Peritheciis minutissimis, globosis, sparsis, nigris, 0,25-0,50 circ. mm. diam. 8214

Hab. ad folia Lauri primigeniæ in marga aquitaniana, Rivaz Helvetiæ.

34. **Sphærites limbatus** Ettingsh foss. Fl. v. Sagor Denkschr. k. Ak. Wiss. XXXII Bd. Wien 1872, p. 160, t. I, f. 11, 12, *a*, *b* (*Sphæria*), Voss Wilh. Mat. z. Pilzk. p. 221. — Peritheciis sparsis, minutis, subangulatis, irregulariter orbiculatis v. ellipticis, limbo pallido cinctis, ostiolo rotundato pertusis. 8215

Hab. ad folia Lauri stenophyllæ in marga aquitaniana prope Savine apud Sagor Carnioliæ, Austria.

35. **Sphærites Palæo-Lauri** Ettingsh. foss. Fl. v. Leoben Denkschr. K. Ak. Wiss. LIV Bd., I Abth., Wien 1888, p. 265, t. I, f. 6, 6 *a* (*Sphæria*). — Peritheciis minutissimis, 0,10-0,20 circ. mm. diam., punctiformibus, nigris, interdum confluentibus, ostiolo rotundato pertusis. 8216

Hab. ad folium Lauri cujusdam in argilla miocenica media Moskenberg prope Leoben Steiermark. — Sec. cl. Ettingshausen *St. interpungenti* Heer similis, a quo peritheciis confluentibus et matricis diversitate tantum differt.

36. **Sphærites eugeniophilus** Mass. Syll. pl. foss. p. 17. 8217

Hab. ad folia Eugeniæ laurifoliæ Mass., in formatione oecenica media montis Bubulcæ in agro veronensi Italiæ bor.

37. **Sphærites münzenbergensis** Ettingsh. Foss. Fl. Leoben Denkschr. k. Ak. Wiss. LIV, Bd. I, Abth. Wien 1888, p. 265, t. I, f. 8, 8 *a* (*Sphæria*). — Peritheciis sparsis minutis 0,20–0,50 mm. circ. diam., subrotundis, subimmersis, nigris, ostiolo rotundato pertusis. 8218

Hab. ad folium Laurineæ cujusdam, in argilla aquitaniana, Münzenberg, Hassia Darmst. Germ. centr. — A *Sph. deperdita* Heer peritheciis majoribus et matricis diversitate distinctus.

38. **Sphærites socialis** Heer Foss. Fl. of Bovey Tracey tab. LXV, f. 13 (*Sphæria*), Schimp. Tr. Pal. Vég. vol. I, pag. 133, Engelh. Ueb. Braunkohlenpfl. v. Meuselwitz, Mittheil. dem Osterlande, N. Folge vol. II, Altenburg 1884. — Peritheciis congregatis, minutissimis $1^1/_2$ mm., orbiculatis, ostiolo rotundato pertusis. 8219

Hab. ad folia Dryandroidis lævigatæ Heer Bovey Tracey

Devanshire Brit. autr. in lignite aquitaniana et in lignite oligocenica Meuselwitz Saxonia-Altenburg.

39. **Sphærites regularis** Goepp. Web. Fl. Nied. Palæontographica II, t. 8, f. 1, p. 40, Mass. Lett. a Scarab. p. 8, n. 1, Fl. foss. Senig. t. I, f. 11, 12, Synops. Fl. foss. Senog. p. 3. — Peritheciis simplicibus 0,5-1 circ. mm. diam., discretis, subscutellæformibus, subrotundis, regularibus. 8220

Hab. ad folia Daphnes Rucellajanæ Massal. in marga gypsacea tortoniana, Senegallia in agro umbro Italiæ bor.; in lignite Liessem, Niederheim, Rott, Orberg ad folia Salicis grandifoliæ Web. — A *Sphærite Braunii* Heer paullo diversus.

40. **Sphærites Palæo-Daphnes** Ettingsh. Foss. Fl. Leoben Denkschr. K. Ak. Wiss. LIV Bd., Abth. Wien 1888, p. 266, t. I, f. 5, 5 *a* (*Sphæria*). — Peritheciis minutissimis, 0,20-0,50 circ. mm. diam., punctiformibus, nigris, sparsis, ostiolo pertusis. 8221

Hab. ad folia Daphnes sp. in argilla miocenica media Moskenberg pr. Leoben, Steiermark. — Sec. cl. Ettingshausen *Sph. Palæo-Lauri* valde affinis, ab eo peritheciis leviter majoribus distinctus.

41. **Sphærites Palæo-Santali** Ettingsh. Foss. Fl. Schoenegg Denkschr. k. Ak. Wiss. LVII Bd. p. 6, t. I, f. 1, 1 *a*, 2 (*Sphæria*). — Peritheciis minutissimis, $^1/_{10}$-$^1/_3$ circ. mm. diam., punctiformibus, nigris, sparsis, ostiolo rotundato pertusis. 8222

Hab. ad folia Santali styriaci Ettingsh. in argilla subflava Johanni-Stollen prope Wies Steiermark.

42. **Sphærites Myricæ** Lesquer. Contrib. to the foss. Fl. of the West terr. Parte II, The tert. Fl. p. 34, t. I, f. 4 (*Sphæria*). — Peritheciis punctiformibus, minutis, sparsis seu in circulum dispositis, maculas rotundas efficientibus. 8223

Hab. ad folia Myricæ Torreyi Lesq. in formatione cretacea superiori Black Buttes Station in Wyoming et in foliis Myricæ nigricantis in formatione eocenica Green River in Wyoming Amer. bor.

43. **Sphærites perforans** Goepp. Ueb. Braunkohlenfl. d. Nordöst. Deutschl. Zeitsch. d. Deutschen geol. Gesell. Berlin 1852, pag. 487, Tert. Fl. v. Schossnitz in Schlesien, pag. 2, tab. I, fig. 3, 4, D. Tertiärfl. a. d. Insel Java pag. 150. — Sparsus; peritheciis simplicibus minutis, 0,5-1 circ. mm. diam., crassiusculis, profunde impressis, stromati punctiformi innatis, apice ostiolo pertusis. 8224

Hab. ad folia Ulmi pyramidalis Göpp. in argilla tortoniana Schossnitz prope Canth ad Vratislaviam.

44. **Sphærites glomeratus** Engelh. Tertiärfl. Jesuitengr. in Nordböh- 8225
men, Nova Acta Acad. Leop. Carol. vol. XLVIII, n. 3, Halle 1885, p. 310, t. VIII, f. 4 (*Sphæria*). — Peritheciis minutis, 0,2 circ. mm. diam., globosis, confluentibus, maculas 1-2 circ. mm. latas efficientibus.

Hab. ad folia Ulmi plurinerviæ Ung., in schisto bituminoso aquitaniano, Jesuitengrabens prope Kundratitz Bohemiæ borealis.

45. **Sphærites rhytismoides** Ettingsh. Beitr. Kennt. Tertiärfl. Steierm. 8226
Sitzungs. K. Ak. Wiss. LX Bd., I Abth. Wien 1869, p. 34, t. I, f. 3 (*Sphæria*), Tert. Fl. v. Leoben Denkschr. k. Ak. Wiss. LIV Bd., I. Abth., Wien 1888, p. 266. — Peritheciis magnis, 2-5 mm. circ. diam., subimmersis, rotundatis, solitariis, ostiolo lato irregulariter fisso pertusis.

Hab. ad folia Ulmi Bronnii Ung.? in argilla miocenica media Moskenberg prope Leoben Steiermark.

46. **Sphærites interpungens** Heer Fl. tert. Helv. I, p. 14, t. I, f. 3, 8227
III, p. 146, t. CXLII, f. 4, II, t. LXXVI. fig. 4 (*Sphæria*), Tert. Fl. v. Grönland vol. VII, pag. 47, t. LXXXVI, f. 7, Ettingsh. Beitr. Kennt. foss. Fl. Parschlug, Denkschr. k. Ak. Wiss. XXXVIII Bd., I Abth. p. 83, Foss. Fl. Schoenegg Denkschr. ibid. LVII Bd, p. 5, t. I, f. 7, 7 *a*, Schimp. Tr. pal. Vég. I, p. 131, Capell. La formaz. gess. Castell. maritt. p. 37, Staub Med. Pfl. a. d. Baran. Com. p. 29, t. I, f. 1, 1 *a*, *Sphaerites minutus* Göpp. Foss. Fl. v. Schossnitz p. 2, t. I, f. 7, 8, Tert. Fl a. d. Ins. Java p. 150, *Sphæria punctiformis fossilis* A. Br. in Stizenb. Ueb. Verst. Grossherz. Baden 1871, p. 71, *Sphærites microstigma* Göpp. Ueb. Braunkohlenfl. d. Nordöst. Deutschl., Zeitschr. Deut. geol. Gesell. Berlin 1852, p. 487. — Peritheciis sparsis minutissimis, punctiformibus, nigris, a stromate vix discretis, globosis, apice ostiolo pertusis.

Hab. ad folia Quercus commutatæ et Gmelini Ung., in calcareo tortoniano Œningen Helvetiæ; ad folia Andromedæ protogeæ in calcareo tortoniano Locle Helvetiæ; ad folia Myricæ lignitum in schisto margaceo tortoniano Parschlug Styriæ et in schisto argillaceo subflavo Neu-Josephi-Tagbau et Johanni-Stollen prope Wies, Steiermack; ad folia Rhamni in marga minuta miocenica superiori Cerretello Tusciæ Italiæ med.; ad folia Quercus Lyellii Heer in siderite, Naujat Groenlandiae; ad folia Quercus semiellipticæ, Q. pseudoprinoidis Göpp., et Rhois quercifoliæ Göpp., in argilla tortoniana Schossnitz pro-

pe Canth ad Vratislaviam; ad folia Leucothoës (Andromeda) protogeæ (Ung.) in formatione tertiaria Varalja in comitatu Baranyensi Hungariæ. — *Sph. punctiformi* Pers. simillimus: perithecia adeo parva sec. cl. Göpp. ut in lineæ quadratæ spatio ad quadraginta numerentur. Sec. cl. Massalongo (St. s. Fl. foss. e geol. strat. d. Senigall. p. 84) species hæc cum *Sph. milliario* Ettingsh. et *Sph. venisequo* Göpp. synonyma.

47. **Sphærites Daphnes** Ettingsh. Beitr. z. Kennt. d. foss. Fl. v. Parschlug in Steierm. l. c. p. 84, tab. I, f. 4, 5 (*Sphæria*). — Supra totum folium æqualiter dispersus; peritheciis minutis, punctiformibus, nigris, apice ostiolo minutissimo pertusis. 8228

Hab. ad folia Quercus Daphnes in schisto margaceo tortoniano ad Parschlug Steiermark.

48. **Sphærites mediterraneus** Ettingsh. Beitr. z. Kennt. d. foss. Fl. v. Parschl. in Steierm. l. c. p. 83, t. I, f. 6, 8 (*Sphæria*). — Sparsus; peritheciis minutis, punctiformibus, interdum confluentibus, nigris. 8229

Hab. ad folia Quercus mediterraneæ ad Parschlug Steiermark in schisto margaceo tortoniano.

49. **Sphærites disciformis** Ung. Gen. et Spec. p. 37. — Peritheciis simplicibus, discretis, minutis, medio impressis pertusisque. 8230

Hab. ad folia Quercuum et Vacciniorum ad Parschlug Stiriæ in marga tortoniana.

50. **Sphærites Mureti** Heer Fl. tert. Helv. vol. III, p. 148, t. CXLII, f. 18 (*Sphæria*), Schimp. Tr. Pal. Vég. vol. I, pag. 133. — Peritheciis sparsis immersis, orbicularibus, majusculis 1-2 circ. mm. diam., ostiolo latiusculo pertusis. 8231

Hab. ad folia Quercus Mureti in marga aquitaniana Monod Helvetia. — Verisimiliter generi *Phacidio* adscribendus.

51. **Sphærites Palæo-Juglandis** Ettingsh. Foss. Fl. Schonegg Denkschr. k. Ak. Wiss., LVII Bd. pag. 6, t, I, f. 3, 3 *a* (*Sphæria*). — Peritheciis minutissimis $^1/_{10}$-$^1/_4$ circ. mm. diam., punctiformibus, fuscis, sparsis, ostiolo vix conspicuo pertusis. 8232

Hab. in argilla subflava Johanni-Stollen prope Wies Steiermark. — A *Sph. münzenbergensi* Ettingsh. rotunditate magis conspicua peritheciorum et nutricis diversitate distinctus.

52. **Sphærites excipuloides** Mass. S. Piante foss. Vic. pag. 59, Vis et Mass. Fl. foss, Nov. p. 9, t, I, f. 5 *A*. — Peritheciis subsimplicibus, discretis, in circulum dispositis, 0,5-1 circ. mm. diam., disco aperto, crasso, concaviusculo. 8233

Hab. ad folia Juglandis pristinæ Ung. in calcareo marga-

ceo aquitaniano inferiori «Novale» in agro Vicetino Ital. bor. — Peritheciorum dispositione cum *Sph. punctiformi* Pers. et forma cum *Excipula Rubi* Fries bene congruit.

53. **Sphærites sp.** Boulay Not. S. la Fl. tert. d. env. de Privas Ardéche, Bull. Soc. Bot. de France XXXIV, Paris 1887, pag. 236 (*Sphæria*). 8234

Hab. ad folia Juglandis acuminatæ in tripoli tortoniano Rochesauve prope Privas Ardéche Galliæ austr.

54. **Sphærites Caryæ** Ettingsh. Die foss. Fl. d. Tert.-Beck. v. Bilin Denkschr. k. Ak. Viss. Wien, XXVI Bd., p. 85, t. 1, f. 20 (*Sphæria*), Schimp. Tr. Pal, Vég. vol. III, p. 432. — Peritheciis sparsis, orbiculatis, magnis 3-5 circ. mm. diam., immersis, apice ostiolo latissimo pertusis. 8235

Hab. ad folia Caryæ in argilla plastica mayenciana Priesen prope Bilin Bohemiæ.

55. **Sphærites Fici** Heer Fl. tert. Helv. vol. III, p. 146, t. CXLII, f. 25 (*Sphæria*), Schimp. Tr. Pal. Vég. vol. I, p. 132. — Peritheciis minutis, punctiformibus, nigris, medio pallidioribus. 8236

Hab. ad folia Fici tiliæfoliæ var. grandifoliæ in formatione tortoniana Elgg canton de Zurich Helvetiæ.

56. **Sphærites Fici-tenuinervis** Ettingsh foss. Fl. Sagor in Krain Sitz. K. Ak. Wiss., L Bd, I Abth., Wien 1885, p. 2, t. XXVIII, f. 3, 3 *a-c* (*Sphæria*). — Peritheciis sparsis, minutissimis, ovalibus, nigris, ostiolo rotundato pertusis. 8237

Hab. ad folia Fici tenuinervis Ettingsh. in marga aquitaniana prope pagum Savine Carnioliæ (Austria). — A *Sph. interpungenti* ob peritheciorum formam et magnitudinem minorem diversus.

57. **Sphærites Braunii** Heer Fl. tert. Helv. vol. I, p. 14, t. I, f. 2 (*Sphæria*), Ludw. Palæontographica vol. VIII, p. 58, t. VIII, f. 2, Ludw. l. c., p. 135, t. XXVII, f. 1, Ettingsh. D. foss. Fl. ält. Braunkohl. Sitz. d. k. k. Ak. d. Wiss. 1868, p. 813, Die foss. Fl. d. Tert. Beck v. Bilin Denkschr. k. Ak. Wiss. Wien, XXVI Bd., p. 83, t. I, f. 10, Capell. La formaz. gess. di Castellinia Maritt. p. 37, Schimp. Tr. pal. Vég. vol. I, p. 131, t. I, f, 18, *Sphæria Populi-ovalis* Al. Br. (ex parte) in Stitz. Verst. Grossh. Baden 1851, p. 71, Heer Uebers. d. Tert. p. 48, *Sphæria Populi-transversæ* Al. Br. in Stitz. Uebers. Verst. Grossherz. Baden 1851, pag. 71. — Peritheciis rotundatis, nigerrimis, disco paulo pallidioribus. 8238

Hab. ad folia Populi ovalis et latioris, in mollaxa tor-

toniaua Œningen et Albis Helvetiæ Salzhausen et Münzenberg (Hessen); ad folia Juglandis, in argilla plastica mayenciana Priesen prope Bilin Bohemiæ, in argilla aquitaniana; ad folia Sideroxyli hepios Ung. in marga miocenica superiori Cerretello Tusciæ Ital. centr. — Sec. cl. Capellini l. c., *Sphæria regularis* Göpp. a cl. Massalongo figurata (Fl. Senig. tab. I, f. 11) potius ad hanc speciem referenda.

58. **Sphærites ceuthocarpoides** Heer Fl. tert. Helv. vol. I, pag. 15, tab. I, f. 1 (*Sphæria*), Schimp. Tr. Pat. Vég. vol. I, p. 131, t. I, f. 6, Capell. La formaz. gess. Castell. maritt. p. 38, *Sphæria Populi-ovalis* Al. Br. (ex parte) in Stitz. Verst. Grossherz. Baden 1851, p. 71. — Peritheciis nigris, applanatis, in macula expallente positis. 8239

Hab. ad folia Populi ovalis in calcareo tortoniano Œningen Helvetiæ, in marga miocenica superiori Cerretello Tusciæ Ital. med. — *Sph. ceuthocarpæ* Fries similis.

59. **Sphærites annulifer** Heer Flora foss. art. I, p. 86, t. I, f. 2, 4, vol. VII, Tert. Fl. v. Grönland p. 47 (*Sphaeria*), Mioc. Fl. Spitzb. p. 30, tab. X, f. 3, Schimp. Tr. Pal. Vég. vol. III, p. 431. — Peritheciis punctiformibus, in circulum lineam diametro metientem dispositis et maculam candidam circumdantibus. 8240

Hab. ad folia Populi? in arenaria nigra miocenica cap. Staratschin Spitzberg et ad folia Magnoliæ Inglefieldi in calcareo ferruginoso miocenico Atanekerdluk Groenlandiae. — *Gnom. Coryli* Batsch. proxima.

60. **Sphærites maculifer** Heer Fl. tert. Helv. vol. III, p. 146, t. CXLII, f. 1 (*Sphæria*), Schimp. Tr. Pal. Vég. vol. I, p. 132. — Peritheciis minutissimis, nigris, globosis, aggregatis, maculas pallidas rotundatas circumdantibus. 8241

Hab. ad folia Populi mutabilis var. ovalis in calcareo tortoniano Œningen Helvetiæ.

61. **Sphærites Salicis** Engelh. Tertiärfl. Jesuitengr. Nordböhmen Nova Acta Acad. Leop.-Carol. vol. XLVIII, n. 3, Haller 1885, p. 310, t. VIII, f. 14, 14 *a* (*Sphæria*) — Peritheciis orbicularibus, nigris, parvis, immersis, 1 circ. mm. diam. 8242

Hab. ad folia Salicis in schisto bituminoso Aquitaniano, Jesuitengrabens prope Kundratitz Bohemiæ borealis.

62. **Sphærites vagans** Goepp. Tertiäre Fl. Schossnitz in Schlesien p. 2, t. I, f. 5, 6 , Tert. Fl. a. d. Insel Java p. 150. — Parvulus, accumulatus; peritheciis simplicibus discretis punctiformibus, 0,10- 8243

0,30 circ. mm. diam., stromatibus applanatis, apice ostiolo latiusculo pertusis.

Hab. ad folia Salicis variantis Goepp. in argilla tortoniana Schossnitz prope Canth ad Vratislaviam.

63. **Sphærites connatus** Goepp. Tert. Fl. Schossn. in Schles. pag. 3, t. I, f. 11, 12, Tertiärfl. a. d. Insel Java, pag. 150. — Gregarius, connatus; peritheciis inæqualibus 3-5-7 inter sese connatis, hinc inde substellatis 0,3–0,5 circ. mm. diam., stromati maculæformi innatis, apice ostiolo pertusis. 8244

Hab. ad folia Salicis in argilla tortoniana Schossnitz prope Canth ad Vratislaviam.

64. **Sphærites Dryadum** Ettingsh. Beitr. Kennt. Tertiärfl. Steierm. Sitz. K. Ak. Wiss. LX Bd., I Abth. Wien 1869, p. 34, t. I, f. 1, foss. Fl. Leoben, ibid. LIV, Bd., I Abth. Wien 1888, p. 266 (*Sphæria*). — Peritheciis magnis, 2-3 mm. diam., orbiculatis, sparsis, apice ostiolo minuto pertusis. 8245

Hab. ad folia Betulæ Dryadum Brongn., in argilla miocenica media Moskenberg prope Leoben Steiermark. — A *Sph. Trogii* Heer, et a *Sph. Caryæ* Ett. paullo diversus.

65. **Sphærites pinicola** Heer Miocen. Fl. Spitzb. pag. 30, tab. XIII, f. 41 (*Sphæria*), Schimp. Tr. Pal. Vég. vol. III, pag. 431. — Peritheciis minutis, punctiformibus, ovalibus, seriatis, ostiolo centrali. 8246

Hab. in acubus Abietis in arenaria nigra miocenica prope cap. Staratschin (Spitzberg).

66. **Sphærites Widdringtoniæ** Ludw. Foss. Fl. Wetter. t. LXIII, f. 1, t. LXVI, in Palaeontogr. vol. VIII, p. 162 (*Sphæria*), Schimp. Tr. Pal. Vég. vol. I, p. 134. — Peritheciis minutissimis, orbicularibus, nigris, ostiolo rotundo. 8247

Hab. ad folia Widdringtoniæ stigmosæ Ludw., in argilla sphærosideritica aquitaniana, Dernbach, Saxoniæ Weimar Germaniæ centr.

67. **Sphærites punctiformis** Ung. Gen. et Spec. p. 37. — Peritheciis simplicibus, discretis, punctiformibus, stromate maculæformi innatis, apice pertusis. 8248

Hab. supra totum folium æquabiliter dispersum in marga tortoniana Parschlug Stiriæ.

68. **Sphærites arcticus** Heer Mioc. Fl. v, Nordgrönland tab. I, f. 5, p. 86 (*Sphæria*), D. foss. Fl. v. Groenland p. 47. — Peritheciis ovalibus, sparsis, medio impressis, 2–2,5 mm. diam. 8249

Hab. ad folii fragmentum, in calcareo ferruginoso firmo formationis miocenicæ Atanekerdluk Groenlandiæ.

69. **Sphærites kutschlinicus** Ettings. Foss. Fl. v. Bilin, Denkschr. k. Ak. Wiss. Wien XXVI Bd. p. 84, t. I, f. 27, 28 (*Sphæria*), Schimp. Tr. Pal. Vég. vol. III, p. 432. — Peritheciis sparsis, 0,25-1 mm. diam., rotundato-ellipticis, convexis apice ostiolo rotundato pertusis. 8250

Hab. in folio indeterminato, Kutschlin Bohemiæ. — A *Sph. effosso* Heer propter perithecia magis convexa et elliptica distinctus.

70. **Sphærites acuminatus** Wat. Pl. foss. du Bass. de Paris pag. 36, t. XI, f. 2 (*Sphæria*). — Peritheciis satis magnis, oblongo-acuminatis, sparsis, nervo insidentibus. 8251

Hab. ad folia Dicotyledoneæ cujusdam in «grès» suessoniano lignitibus insidente, Bellen, Aisne Gall. bor. — Affinis *Sph. Braunii*, sed perith. utrinque acuminatis differt.

II. Cortici-lignicolæ.

71. **Sphærites Pini** Ludw. Foss. Fl. Wetter. p. 163, t. LXIII, f. 3 (*Sphæria*), Schimp. Tr. Pal. Vég. vol. I, p. 134. — Peritheciis minutis, 0,25-0,5 circ. mm. diam., hemisphæricis, ostiolatis. 8252

Hab. in cortice Pini rotundo-squamosæ Ludw. in argilla sphærosideritica aquitaniana Dernbach, Saxoniæ Weimar, Germ. centr. — Peritheciis hemisphæricis a *Sph. areolato* Fres. et rotunditate a *Sph. turbineo* Ludw. diversus.

72. **Sphærites schoeneggensis** Ettingsh. Foss. Fl. Schönegg Denkschr. k. Ak. Wiss. Wien, LVII, p. 6, t. I, f. 8 (*Sphæria*). — Peritheciis magnis, 1,5-3 mm. diam., orbiculatis, sparsis, apice ostiolo latiusculo pertusis. 8253

Hab. in cortice Glyptostrobi europæi, in argilla subflava Neu-Josephi-Tagbau pr. Wies, Steiermark. — A *Sph. Mureti* Heer sec. cl. Ettingshausen peritheciis majoribus et planioribus distinctus.

73. **Sphærites Secretani** Heer Fl. tert. Helv. I, p. 15, t. I, fig. 4 *a* (*Sphæria*), Schimp. Tr. pal. Vég. I, pag. 132, Ettingsh. Foss. Fl. Sagor Denkschr. k. Ak. Wiss. math. nat. Cl. L, Wien 1885, p. 2. — Peritheciis minutissimis, rotundatis, planis, aggregatis, nigris, disco albido. 8254

Hab. ad caulem in marga tortoniana Oeningen Helvetiæ et in topho vulcanico Hohenkraehen prope Muhlhausen Alsatiæ et ad folia Phragmitis œningensis Heer in marga aquitaniana pr. pagum Savine Carnioliæ (Austria). — *Sph. Fici* simillimus, inter species vigentes cum *Pleospora herbarum* habitu bene congruit.

74. **Sphærites Sismondæ** Ettingsh. Foss. Fl. v. Bilin Denkschr. k. Ak. Wiss. XXVI Bd., I, p. 83, t. I, f. 21 (*Sphæria*), Schimp. Tr. Pal. Vég. vol. III, p. 431. — Peritheciis fuscis, minutis, subglobosis, sparsis, apice ostiolo minimo punctiformi pertusis. 8255

Hab. in ramo Dicotyledoneæ cujusdam in argilla plastica mayenciana Priesen prope Bilin Bohemiæ. — A *Sph. Trogii* Heer peritheciorum dispositione et ostiolo distinctus.

75. **Sphærites turbineus** Ludw. Foss. Fl. Wetter. (Palæontograph. vol. VIII, p. 54, t. VIII, f. 10) (*Sphæria*) Ettingsh. D. foss. Fl. d. ält. Braunkohlenf. d. Wett. Sitz. d. k. k. Ak. d. Wiss. 1868, p. 812, Schimp. Tr. Pal. Vég. vol. I, p. 134. — Peritheciis ovalibus, 0,5-1 mm. diam., breviter pedicellatis, superne coarctatis, ostiolo centrali aperto marginato. 8256

Hab. in lignitibus aquitanianis, Salzhausen Hassiæ Darmstadt Germ. centr.

76. **Sphærites lapideus** Lesquer. Contrib. to the Foss. Fl. of the West terr. Part II, The Tert. Fl. p. 34, t. I, f. 3 (*Sphæria*). — Peritheciis rotundatis, admodum convexis, 1 vel 2 mm. latis, in series lineales dispositis, subcorticalibus, corticem perforantibus, dein erumpentibus, membranaceis seu coriaceis, albidis. 8257

Hab. in fragmento ligni fossilis formationis cretaceæ superioris Raton Mountains, New Mexico Amer. bor.

77. **Sphærites areolatus** Fresen. Palæontograph. vol. IV, pag. 202, t. XXXVII, f. 9-12 (*Sphæria*), Ludw. Foss. Fl. Wetter. t. VIII, f. 11, Ettingsh. Fl. foss. d. ält. Braunkohlenf. d. Wett. Sitz. d. k. k. Ak. d. Wiss. 1868, pag. 812, Schimp. Tr. Pal. Vég. vol. I, p. 134. — Peritheciis aggregatis, subsphæricis, 0,50-0,75 mm. diam., superne deplanatis, ostiolo aperto marginato producto. 8258

Hab. inter fragmenta vegetabilia putrescentia, in lignite aquitaniana Salzhausen et Hessenbruckener-Hammer. — *Sph. mammæformi, spermoidi* et *Bombardæ* facie similis.

III. *In Monocotyledoneis et Acotyledoneis.*

78. **Sphærites sp.** Lugeon La Molasse de la Borde Bull. soc. Vaud. 1887, XXIII, p. 174 (*Sphæria*). 8259

Hab. ad folia Manicariæ formosæ in mollaxa vallis de la Borde prope Lausannam Helvetiæ.

79. **Sphærites Flabellariæ** Ettingsh. et Gard. Rep. Phyto-Pal. Invest. foss. Fl. of Sheppey Proc. Roy. Soc. London vol. XXIX, 1879, p. 392 (*Sphæria*), loc. cit. nulla adest descriptio. 8260

Hab. in argilla eocenica insulæ Sheppey Angliæ.

80. **Sphærites Lesquereuxi** Mesch., *Sphæria rhytismoides* Lesq. Contrib. to the foss. Fl. of the West terr. Part II, The tert. Fl. p. 35, t. I, f, 5, 5 *a*. — Peritheciis punctiformibus, in circulum dispositis, illis *Sph. Myricæ* et *lapideo* majoribus, margine irregulari notatis. 8261

Hab. ad folia Caulinitis sparganioidis, formationis cretaceæ superioris Black Buttes Station in Wyoming Amer. bor.

81. **Sphærites Zosteræ** Schmalh. Beitr. Tertiärfl. Süd-West-Russlands Palaeontologische Abhandl. Berlin 1883, p. 289 (*Sphæria*). 8262

Hab. in formatione tertiaria Rossiæ austro-occidentalis.

82. **Sphærites Palæo-Typhæ** Ettingsh. Foss. Fl. Schönegg p. 5, t. I, f. 4, 4 *a* (*Sphæria*). — Peritheciis minutis, nigris, circ. 0,25-0,50 mm. diam., rotundis, subseriatis, ostiolo rotundato pertusis. 8263

Hab. ad folia Typhæ latissimæ in argilla subflava Neu-Josephi-Tagbau prope Wies, Steiermark. — A *Sph. Trogii* Heer sec. cl. Ettingshausen peritheciis rotundis tantum distinctus.

83. **Sphærites minutulus** Sap. Étud. s. l. Vég. du S.-E. de la France Ire part., pl. III, f. 19, A. et B. (*Sphæria*), Schimp. Tr. Pal. Vég. vol. I, p. 132. — Peritheciis minutissimis sparsis. 8264

Hab. in fragmento folii Typhæ maximæ A. Br., in calcareo liguriano Aix, Narbonne Galliæ. — *Sph. Kunkleri* simillimus.

84. **Sphærites proximus** Sap. Étud. s. l. Vég. du S.-E. de la France I part., pl. III, fig. 19 (*Sphæria*), Schimp. Tr. Pal. Vég. vol. I, p. 132, t. I, f. 14 *a, b*. — Peritheciis fuscis, minutis, orbicularibus, sparsis, nervis insidentibus. 8265

Hab. in fragmento folii Typhæ maximæ A. Br. calcaris liguriani Aix, Narbonne Galliæ.

85. **Sphærites Kunkleri** Heer Fl. tert. Helv. vol. I, p. 15, t. 1, f. 4 *a* (*Sphæria*), Sap. in Heer Le climat et la Vég. du pays tertiaire p. 159, Ettingsh. D. Foss. Fl. d. Tert.-Beck. v. Bilin Denkschr. k. Ak. Wiss. Wien XXVI Bd. p. 84, t. I, f. 23, Foss. Fl. Schoenegg ibid. LVII Bd. p. 5, t. I, fig. 5, 5 *a*, Schimp. Tr. Pal. Vég. vol. I, p. 132, t. I, f. 5. — Peritheciis minutissimis, planiusculis, orbicularibus, minute ostiolatis, aggregatis, nigris disco impressis. 8266

Hab. ad fragmenta foliorum Graminacearum, in argilla helvetiana ad Saint-Gall Helvetiæ, in schisto bituminoso aquataniano Manosque Basses Alpes Galliæ austr. in caule argillæ plasticæ mayencianæ Priesen prope Bilin, in argilla subflava Neu-Josephi-

Tagbau prope Wies, Steiermärk. — A *Sph. Trogii* Heer propter perithecia dense disposita distinctus.

86. **Sphærites Trogii** Heer Fl. tert. Helv. I, pag. 15, t. I, f. 5, III, p. 147, t. CXLII, f. 5 (*Sphæria*), Schimp. Tr. Pal. Vég. I, p. 132, Ettingsh. Tert. Fl. Leoben Denkschr. Ak. Wien LIV, p. 226, Foss. Fl. Schönegg ibid. LVII Bd. p. 5, t. I, f. 6, 6 *a*. Fliche Fl. tert. env. Mulhouse Soc. ind. Mulhouse tom. LVI, Mulhouse 1886, p. 352, Engelh. Tertiärfl. v. Göhren Acta Acad. Leop.-Carol. XXXVI, p. 9, t. II (IX), fig. 1. — Peritheciis punctiformibus, sparsis, subseriatis. 8267

Hab. ad folia Phragmitis œningensis, in calcareo tortoniano Oeningen et in marga aquitaniana Monod Helvetiæ, in argilla subflava Neu-Josephi-Tagbau prope Wies, Steiermark, in argilla miocenica media Moskenberg prope Leoben, Steiermark, ad folia Poacites sp. in marga aquitaniana inferiore Riedisheim pr. Mulhouse Alsatiæ; ad folia Phragmitis, in argilla aquitaniana Göhren, inter Wechselburg et Lunzenau Saxoniæ. — *Sph. graminis* Pers. et *Actinothyrio graminis* Kunz. habitu similis.

87. **Sphærites Gaudinii** Mesch., *Sphæria atomica* Gaud. Contrib. a la Fl. Foss. italienne II, Nouv. mém. Soc. helv. Scienc. nat. vol. XVII, n. 4, p. 32, t. I, f. 13, Lausanne (?) 1859, nec Mass. (1851). — Peritheciis sparsis, perexiguis, circularibus, margine tumidulis, nigris, centro pallidioribus. 8268

Hab. ad folia Phragmitis œningensis, in arena flava «Castro» Tusciæ Ital. centr. (Gaudin, coll. Strozzi). — Perith. 80-100 *μ*. diam. A *Sph. Trogii, Kunkleri,* et *Secretani* magnitudine minore et dispositione peritheciorum diversus.

88. **Sphærites Phragmitis** Ludw. Foss. Fl. Wetter. p. 168, t. LXIII, f. 2 et t. LXVII, f. 4, 5 (*Sphæria*), Schimp. Tr. Pal. Vég. vol. I, p. 134. — Peritheciis orbicularibus v. subovalibus, 0,5-1 mm. diam., ostiolo centrali tumide marginato. 8269

Hab. in culmis Phragmitis aquæ-ferratæ Ludw., in argilla sphærosideritica aquitaniana, Dernbach Saxoniæ Weimar, Germ. centr. — A *Sph. Kunkleri* Heer et *Sph. Trogi* Heer orbe majore distinguitur.

89. **Sphærites pristinus** Ettingsh. Foss. Fl. Bilin Denk. Ak. Wien XXVI, vol. I, p. 85, t. I, f. 25 (*Sphæria*), Schimp. Tr. Pal. Vég. vol. VIII, pag. 432. — Peritheciis congestis, circ. 0,28-0,50 mm. diam., subglobosis, immersis, apice ostiolo minimo vix conspicuo pertusis. 8270

Hab. ad Monocotyledoneam quamdam in argilla plastica mayenciana Priesen prope Bilin, Bohemiæ.

90. **Sphærites solitarius** Deb. et Ettingsh. D. Urw. Acrobryen u. Thalloph. Kreidegeb. Aachen und Mästricht Denkschr. k. Ak. Wiss. XVI Bd., Wien 1859, pag. 213, t. III, f. 4, *e*, *f*, *g* (*Sphæria*). — Peritheciis solitariis, remotis, suborbicularibus, $^1/_5$-1 mm. latis, planis, disco centrali minimo immerso. 8271

Hab. in folio plantæ Monocotyledoneæ, in stratis argillosis arenacei dicti aquisgranensis, rarissimus.

91. **Sphærites Morloti** Fisch.-Ost. Heer Fl. tert. Helv. vol. III, p. 147, t. CXLII. f. 25 (*Sphæria*), Schimp. Tr. Pal. Vég. vol. I, p. 133. — Peritheciis punctiformibus, circ. 1-1,5 mm. diam., rotundatis, ferrugineis, sparsis. 8272

Hab. in pinnula Lygodii acutanguli in marga mayenciana Lützelflüh, canton de Berne Helvetiæ.

IV. In matrice ignota.

92. **Sphærites Feistmantelianus** Rabenh. in Geinitz. Ueber eine neue foss. Frucht aus den Zechstein und eine überreste aus der Steinkohlenf. «Isis» Dresden 1870, p. 8 (*Sphæria*), Feistmantel Verstein. d. böhm. Ablag. (Palæontograph. vol. XXIII, pag. 78), D. Mittelböhm, Steinkohlenabl. Archiv. d. Naturw. Durchforsch. v. Böhmen V Bd., n. 3, geol. Abth. Prag. 1883, p. 59. — Sparsus v. subgregarius; peritheciis innatis subparvis, basi plana (ut videtur) sphæroideis, opacis, ostiolo mammillari; sporis cylindrico-fusiformibus, obscuris, impellucidis, utroque polo obtusis, nonnumquam appendiculatis, diametro 4-5-plo longioribus. 8273

Hab. in eodem lapide cum Baccilarite (?) problematico K. Fst., Radnitz Bohemiæ bor. in formatione carbonifera (Zechstein).

93. **Sphærites muricatus** Meng. et Göpp. in Göpp. Fl. d. Bernstein Monatsbericht k. Ak. Berlin 1853, p. 453 (*Sphæria*). — Peritheciis rotundatis, minutissimis, muricato-rugosis, ostiolo rotundato pertusis. 8274

Hab. in succino Borussiæ.

94. **Sphærites Annulus** Gaud. et Str. Contr. II, p. 9, t. II, f. 6 (*Sphæria*). — Peritheciis magnis, circ. 1,5-2 mm. diam. circularibus, disco interiore, ostiolo centrali præditis, raro medio depressis. 8275

Hab. in formatione pliocenica, Piombino Ital. med.

95. **Sphærites italicus** Gaud. et Str., Feuill. foss. Toscane p. 26, t. I, 8276

f. 11, 12 (*Sphæria*). — Peritheciis sparsis, orbicularibus, circ. 1 mm. diam., planis et ad marginem leviter inflatis.

Hab. in marga ferruginea, Val d'Arno Ital. med. — A *Sph. vaganie* Göpp. magnitudine peritheciorum tantum differt.

96. **Sphærites verrucarioides** Mass. Syll. pl. foss. p. 17. 8277

Hab. ad folia varia in marga aquitaniana, Chiavon in agro vicetino Ital. bor. — Loc. cit. nulla adest descriptio.

97. **Sphærites primævus** Göpp. Uebers. Gatt. foss. Pflanzen Germar's 8278 Lehrbuch d. Mineral. Halle 1837, p. 430.

Hab. fossilis in Germania (?).

98. **Sphærites sp.** Klüpf. Z. Tertiärfl. Schwabischen Alb. Verein f. 8279 Vaterl. naturk. Württemberg 21 st. Jahrg. Stuttgart 1866, p. 156.

Hab. in formatione tertiaria Schwabach Bavariæ.

99. **Sphærites sp.** Brongn. Tabl. d. genres de végét. foss. Paris 1849, 8280 pag. 6.

Hab. fossilis, ubi?.

100. **Sphærites intumescens** Al. Br. Stiz. Verzeich. p. 71, Heer Fl. 8281 tert. Helv. I, p. 16 (*Sphæria*).

Hab. in formatione tertiaria helvetica. — Sec. Heer est potius forma entomogenea a gallis *Nemati saliceti* Hartig parum diversa.

Obs. Cl. V. Procaccini-Ricci in Lettera prima e seconda al prof. A. Alessandrini, sulla Anat. fill. sinigall. Bol. 1838, memorat maculas nigras minutas in foliis fossilibus Lauri, Populi Aceris etc. occurrentes, in Sinigallia, quæ fere absque dubio fungillos (*Sphærites* v. *Depazites*) spectant. Etiam cl. A. G. Nathorst in Contr. Fl. fossil. Japon, Stokh. 1883 indicat et delineat fungillum (?) in foliis fossilibus Fagi ferrugineæ ex Japonia, sed forte de insectorum punctures agitur.

Sec. Geyler H. Th. und Kinkelin F., Ober-Pliocen Flora aus den Baugruben des Klärbeckens bei Niederrad und der Schleuse bei Höchst a. M. (Abhandl. d. Senkenberg. Naturf. Gesell. Bd. XIV, Frankfurt 1887), in formatione pliocenica superiori Klärbecken pr. Niederrad et Schleuse pr. Höchst, occurrunt duo pyrenomycetes, unus *Hypoxylon fuscum* et *Diatrypen disciformem*, alter *Rosellinium Aquilam* referentes.

POLYSTIGMITES Pers. (*Polystigma*), Sacc. Syll. II, p. 458.

1. **Polystigmites priscus** Mass. Lett. a Scarab. p. 9, n. 7, Synops. Fl. 8282 foss. Senog. p. 4, Fl. foss. Senig. p. 87, t. I, f. 15, 16, Sacco, Il

Piano Messiniano, p. 386. — Maculis latis, 5-14 mm. diam., convexis, irregularibus, prominulis, crassiusculis, impresso-punctatis.

Hab. ad folia varia in marga gypsacea tortoniana Senogalliæ in agro umbro Ital. med., et in formatione pliocenica inferiori Pedemontii. — *Polyst. fulvo* D. C. habitu proximus.

DOTHIDITES Fr. (*Dothidea*), Sacc. Syll. II, pag. 639, sensu lato et quoad habitum.

1. **Dothidites acericola** Heer Fl. Tert. Helv. vol. III, pag. 148, tab. CXLII, f. 7 (*Dothidea*), Schimp. Tr. Pal. Vég. vol. I, p. 136. — Stromate minuto, rotundato, nigro; peritheciis minutissimis 0,25 circ. mm. diam., aggregatis. 8283

Hab. ad folia Aceris trilobati in calcareo cœruleo tortoniano Locle Helvetiæ.

2. **Dothidites Andromedæ** Heer Fl. tert. Helv. vol. III, p. 148, tab. CI. f. 26 (*Dothidea*), Schimp. Tr. Pal. Vég. vol. I, p. 136, *Sphærites connatus* Goepp. Tert. Fl. v. Schoss. p. 3, t. I, f. 11, 12. — Stromate ovato vel subrotundo, peritheciis minutis 0,25-0,50 circ. mm. diam., aggregatis, hinc inde substellatis, 8284

Hab. ad folia Andromedæ protogeæ in calcareo albo tortoniano, Locle Helvetiæ et in argilla tortoniana Schossnitz prope Canth ad Vratislaviam.

3. **Dothidites Sterculiæ** Ettingsh. Beitr. z. Kennt. Tertiärfl. Steierm. Sitz. d. K. Ak. d. Wiss. LX Bd., I Abth. Wien 1869, p. 34, t. I, fig. 6 (*Dothidea*), Foss. Fl. v. Leoben., Denkschr. d. k. Ak. d. Wiss. LIV Bd., I Abth. Wien 1888, p. 267. — Sparsus, rotundus, minutus, 0-5-1 mm. diam., niger, e pustulis minutissimis circulariter dispositis aggregatis. 8285

Hab. ad folia Sterculiæ cinnamomeæ in argilla miocenica media, Moskenberg prope Leoben, Steiermark. Sec. cl. Ettingshausen a *Doth. myricicola* Ettingsh. propter pustulas in circulum, circum pustulam majorem, dispositas, distinctus et a *Sph. connato* Göpp. propter macularum magnitudinem majorem et matricis diversitatem diversus.

4. **Dothidites Dryadum** Ettingsh. Foss. Fl. v. Leoben in Steierm. Denkschr. k. Ak. d. Wiss. LIV Bd., I Abth., Wien 1888, p. 267, t. I, f. 9 (*Dothidea*). — Confluens, rotundus, niger, mm. 0,50-2 circ. diam., e pustulis minutis, irregulariter dispositis aggregatis. 8286

Hab. ad folia Betulæ Dryadum in argilla miocenica media Moskenberg, Steiermark. — Propter macularum confluentiam a *Doth.*

Sterculiæ Ettingsh. diversus. *Doth. Ulmi* Desv. habitu valde affinis sec. cl. Ettingshausen.

5. **Dothidites borealis** Heer Mioc. Fl. v. Island pag. 139, tab. XXV, f. 17 (*Dothidea*), S. le climat et la Vég. du pays tert. p. 175. — Epiphyllus, rotundatus vel angulato-difformis, subconfluens, 0,25-0,50 circ. mm. diam. 8287

Hab. ad folia Betulæ macrophyllæ in topho friabili flavidulo tortoniano Hredavatn in Nordrardalr Thule. — *D. betulinæ* Fries habitu similis.

6. **Dothidites myricicola** Ettingsh. Foss. Fl. v. Leoben in Steierm. Denkschr. k. Ak. d. Wiss. LIV Bd., Abth., p. 266, t. I, f. 10 (*Dothidea*). — Sparsus, rotundus, minutus, 0,5-1,20 mm. diam., niger, e pustulis minutissimis irregulariter dispositis aggregatis. 8288

Hab. ad folia Myricæ lignitum in argilla miocenica media Moskenberg prope Leoben Steiermark.

7. **Dothidites cypericola** Bleicher et Fliche, Note s. C. Fl. plioc. du Monte Mario pag. 8, f. 2,2' (*Dothidea*). — Peritheciis parvis, rotundatis. punctiformibus, sparsis. 8289

Hab. ad folia Cyperi in marga flavidula pliocenica superiori «Monte Mario» prope Romam Ital. centr. (Fliche). — Perith. 0,5 circ. mm. diam. Ejus similitudo inter species fossiles cum *Sphærite Trogii* Heer, mirifica. A vigente *Doth.* (*Phyllach.*) *graminis* Pers. parum diversus videtur.

HYSTERITES Tode (*Hysterium*), Sacc. Syll. II, p. 743, sensu lato et quoad habitum.

1. **Hysterites subopegraphoides** Geyler Foss. Pfl. v. Labuan Vega-Exp. vetensk. Iakttag., Bd. IV, Stockholm 1887, p. 487, t. XXXII, f. 1 (*Hysteriopsis*). — Peritheciis in series aut irregulariter dispositis, oblongo-linearibus mm. 1-2 fere longis, supra aut prope aut inter nervillos dispositis. 8290

Hab. ad folia Aceris? in argilla insulæ Labuan prope Borneo. — *Hyst. foliicolæ* Fries affinis. Qua ratione ab *Hyst. opegraphoidi* (Goepp.) Heer differat, nisi peritheciorum magnitudine, nescio.

2. **Hysterites parschlugianus** Ettingsh. Beitr. z. Kennt. d. foss. Fl. v. Parsch. in Steierm. Denkschr. k. Ak. Wien XXXVIII Bd., I Abth. pag. 85, t. II, f. 1-2 (*Hysterium*). — Peritheciis ovalibus, concatenatim conjunctis, lineas parallelas confertas vel concentrice dispositas formantibus. 8291

Hab. ad folia Aceris decipientis in schisto margaceo tor-

toniano ad Parschlug Steiermark. Ab *Hyst. labyrinthiformi* Ung. parum diversus.

3. **Hysterites opegraphoides** Goepp. Gen. pl. foss. pag. 111, t. XIV, f. 1, 2, *Hysterium deperditum* Heer olim, *Hysterium opegraphoides* (Goepp.) Heer. Fl. tert. Helv. vol. I, p. 18, t. II, f. 8, Schimp. Tr. pal. Vég. vol. I, pag. 137, tab. I, fig. 12, Ludw. Palaeontogr. vol. VIII, p. 55, t. VIII, f. 7, Ettingsh. D. foss. Fl. d. ält. Braunkohlenf. d. Welt. Sitz. d. K. K. Ak. d. Wiss. 1868, pag. 813. — Peritheciis irregulariter vel concentrice dispositis, oblongo-linearibus, 1 mm. circ. longis, solitariis et per paria vel plura lateraliter confluntibus. 8292

Hab. ad folia Aceris tricuspidati A. Br. in marga aquitaniana Hohe Rhonen Helvetiæ, in lignite aquitaniana Salzhausen Hassiæ Darmst. Germ. centr. *Hyst. foliicolo* Fries affinis. — Verisimiliter huic speciei *Hyst. catenulatus* Ludw. adscribendus.

4. **Hysterites deperditus** Heer Uebers. Tertiärfl. Schweiz. Mittheil. d. Naturf. Gesell. in Zürich. III Bd, Zürich 1853, n. 84, p. 94, n. 87, p. 135 (*Hysterium*). 8293

Hab. ad folia Populorum in marga aquitaniana, Hohe Rhonen Helvetiæ.

5. **Hysterites serialis** Göpp. Tert. Fl. Schossnitz in Schlesien, p. 2, t. I, f. 1, 2, Gatt. foss. Pfl. Heft V, VI, p. 3, *Melanconites serialis* Göpp. Ueb. d. Braunkohlenfl. d. nordöst. Deutschl. Zeitschr. Deutschen geol. Gessell. Berlin, 1852, p. 487, *Hysterium seriatum* Göpp. Tertiärfl. a. d. Insel Java p. 150. — Epiphyllus; peritheciis æqualibus, 0,5 circ. mm. latis, 1 mm. longis, regularibus in series lineari-elongatas dispositis. 8294

Hab. ad folia Salicis variantis Göpp. in argilla tortoniana Schossnitz prope Canth ad Vratislaviam.

6. **Hysterites protographis** Mass. Syll. pl. foss. p. 17. 8295

Hab. ad folia Sapotacitidis vacciniopsis Mass. in calcareo margaceo aquitaniano Chiavon in agro vicetino Ital. bor. — Loc. cit. nulla adest descriptio.

7. **Hysterites Cordaitis** Grand'Eury Mém. Fl. Carb. Depart. Loire Mém. Acad. Scien. Inst. nat. tome XXIV, n. 1, p. 10, t. I, f. 7. — Peritheciis numerosis plus minus confertis, oblongis, rima longitudinali dehiscentibus, 1-2 mm. longis, 1 fere latis. 8296

Hab. ad folia Dammaræ Brownii in formatione carbonifera superiori Ligeris superioris Galliæ. — Perithecia minora similia sunt illis ad pinnulas Nevropteridis subcrenulatae a cl.

Germar inventa (Verst. d. Steinkohlengeb. v. Wettin u. Löbejün, p. 11, t. V, f. 1).

8. **Hysterites protogæus** Heer Fl. foss. Arct. vol. VI, pars II, p. 20, t. XXIV, f. 9, 9 *b* (*Hysterium*). — Peritheciis minutis, oblongis, 0,5–1 mm. longis, 0,3-0,5 mm. latis, rima media profunda notatis. 8297

Hab. ad lignum Coniferæ in formatione cretacea superiore Atanekerdluk Groenlandiæ.

9. **Hysterites Friesii** Nath. Beitr. foss. Fl. Schwedens. pag. 9, t. I, f. 1, 2. — Peritheciis sessilibus, transversim seriatis, rarius solitariis et longitudinaliter confluentibus, linearibus vel lanceolato-linearibus, 1,5–2 mm. longis, rima longitudinali dehiscente. 8298

Hab. ad folia Podozamitis distantis Presl in schisto argilloso griseo formationis rhæticæ Palsjö Sueciæ. — Ab *Hyst. opegraphoide* (Goepp.) Heer parum diversus.

10. **Hysterites (?) Zosteræ** Schmalh., Beitr. z. Tertiärfl. Süd-West-Russlands Palaeontolog. Abhandl. Berlin 1883, p. 289 (*Hysterium*). 8299

Hab. ad Zosteram in formatione tertiaria Rossiæ austro-occidentalis.

11. **Hysterites decipiens** Al. Br. Heer Fl. tert. Helv. vol. I, p. 18, tab. XII, f. 5 (*Hysterium*). Schimp. Tr. Pal. Vég. vol. I, p. 137. — Peritheciis sparsis, minoribus, ovalibus, 0,5-1 mm. diam., rima medio breviore notatis numquam confluentibus. 8300

Hab. in rachide Pteridis œningensis in calcareo tortoniano Œningen Helvetiæ.

12. **Hysterites dubius** Deb. et Ettingsh., Urw. Thall. Kreideg. Aachen und Mästricht Denkschr. k. Ak. Wiss. XVI Bd., Wien 1859, p. 213, t. III, f. 5, *d*. — Peritheciis ellipticis v. rarius rotundatis, seriatim dispositis, segregatis vel rarius confluentibus $^1/_4$–$^1/_2$ mm. latis. 8301

Hab. ad folium indeterminabile in strato argilloso arenaceo, dicto aquisgranensi, rarissimus.

13. **Hysterites labyrinthiformis** Ung. Chlor. prot. t. I, fig. 1, Schimp. Tr. Pal. Vég. vol. I, p. 137, t. I, f. 13, Ung. Gen. et Spec. p. 37. — Epiphyllus, maculis pallidis innatus; peritheciis linearibus, parallelis confertis concentrice dispositis. 8302

Hab. ad folium magnum indeterminatum in schisto calcareo argilloso mayenciano Radoboj in Croatia Austriæ.

14. **Hysterites catenulatus** Ludw. Fl. Wetter. tab. VIII, p. 9 (*Hysterium*), Schimp. Tr. Pal. Vég. V, I, p. 137. — Peritheciis ovalibus utraque extremitate acuminatis, 1–1,25 mm. longis, binatim vel quaternatim cohærentibus, transversim seriatis. 8303

Hab. in formatione aquitaniana Salzhausen, Hassiæ Darmst. Ger. centr. — Sec. cl. Ettingshausen species hæc *H. opegraphoidi* (Goepp.) Heer subscribenda.

15. **Hysterites torulosus** Göpp. Tertiärfl. auf Insel Java, p. 96. 8304

Hab. in lignite aquitaniana Salzhausen pr. Fulda in agro vogesbergensi. — Loc. cit. nulla adest descriptio.

16. **Hysterites seriatus** Göpp. Tertiärfl. auf d. Insel Java, p. 150. 8305

Hab. in argilla tortoniana Schossnitz prope Canth ad Vratislaviam. — Loc. cit. nulla adest descriptio.

Cohors 5. **Discomyceteæ.**

PEZIZITES Dill. (*Peziza*), Sacc. Syll. VIII, p. 74, sensu lato et quoad habitum.

1. **Pezizites silvaticus** Ludw. Palaeontogr. vol. VIII, p. 57, t. VIII, p. 12 (*Peziza*), Ettingsh. D. foss. Fl. d. ält. Braunkohl. d. Wett. Sitz. d. k. k. Ak. d. Wiss. 1868, pag. 815, Schimp. Tr. Pal. Vég. vol. I, p. 142. — Cupulæ gregariæ, 0,75–1 mm. diam. metientes, pachydermeis, exacte sessilibus. 8306

Hab. in lignite aquitaniana Salzhausen, Hassiæ Darmst. Germ. centr. *Humaricæ humosæ* habitu affinis.

2. **Pezizites claviformis** Göpp. et Meng. in Göpp. Ueber d. Bernstein- flora, Monatsbericht k. Ak. Berlin 1854, p. 454 (*Peziza*). 8307

Hab. in succino Borussiæ. — *P. clavo* Alb. et Schwein., facie valde similis. — Loc. cit. nulla adest descriptio.

3. **Pezizites candidus** Goepp. u. Berendt in Berendt. Die im Bernst. befindl. Organ. Reste Vorwelt p. 119, t. VI, f. 47, 68, Göpp. Ueb. Bernsteinflora, Monatsb. kön. Ak. Wiss., Berlin 1853, p. 454, Ueb. Braunkohlenfl. Nordöstl. Deutschl. Zeitschrift. Deut. geol. Gesell. Berlin 1852, p. 488, Schimp. Tr. pal. Vég. I, p. 142, Ung. Gen. et Spec. pl. foss. p. 39. — Mycelio tenuissimo suffultus, receptaculo substipitato, candido, cyathiformi, margine integro, disco primum clauso, demum aperto, concavo, subtus fibroso. 8308

Hab. in Lepismate in succino incluso in Borussia orientali. — Sec. cl. Göpp. *Pezizæ umbonatæ* Pers. valde affinis quamvis ill. Berkeley dissentiat.

CENANGITES Fr. (*Cenangium*), Sacc. Syll. VIII, p. 556, sensu lato et quoad habitum.

1. **Cenangites Piri** Ludw. Palæont. vol. VIII, p. 164 t. LXIII, f. 8, 8309

8 *a*, 8 *b* (*Cenangium*), Schimp. Tr. Pal. Vég. vol. I, p. 143. — Fungus suborbicularis, leniter convexus, breviter stipitatus, 5 mm. diam., metiens, disco minute pustulato.

Hab. ad folia Piri ovatifoliæ Goepp. in argilla sphærosideritica Dernbach Saxoniæ Weimar, Germ. centr.

PHACIDITES Fr. (*Phacidium*), Sacc. Syll. VIII, p. 709, sensu latiore et quoad habitum.

1. **Phacidites sinuosus** Ludw. Fl. Wetter., Palæont. vol. VIII, p. 164, tab. LXIII, 6, 6 *a*, 6 *b* (*Phacidium*), Schimp. Tr. Pal. Vég. vol. I, p. 135. — Maculis diversiformibus, 2–3 mm. longis, margine sinuoso, levibus, disco punctulato. 8310

Hab. ad folia Piri serrulatæ Goepp. in argilla sphærosideritica aquitaniana Dernbach Saxoniæ Weimar, Germ. centr.

2. **Phacidites multiformis** Ludw. Palæont. (Fl. Wetter.), vol. VIII, p. 163, tab. LXIII, f. 4, 4 *a* (*Phacidium*), Schimp. Tr. Pal. Vég. vol. I, p. 135. — Maculis irregularibus oblongis, 2–5 mm. latis, turgide marginatis, disco interno punctulato. 8311

Hab. in foliis Piri ovalifoliæ Goepp in argilla sphærosideritica aquitaniana Dernbach, Saxoniæ Waimar, Germ. centr.

3. **Phacidites Palæocassiæ** Ettingsh. Die Kreidefl. v. Niedersch. in Sachsen Sitz. k. k. Ak. d. Wiss. Wien, 1867, p. 242, t. I, f. 8. (*Phacidium*). — Maculis irregularibus, polygonis, 1–3 mm. diam. depressis, disco subrotundato, pallido. 8312

Hab. ad foliola Palæocassiae lanceolatæ in argilla schistosa cenomaniana ad Niederschoena prope Freiberg Saxoniæ. — *Ph. Eugeniarum* Heer similis.

4. **Phacidites Eugeniarum** Heer Fl. tert. Helv. vol. I, pag. 17 t. II, f. 1 (*Phacidium*), Schimp. Tr. Pal. Vég. vol. I, pag. 134, t. I, f. 2, Engelh. Tertiärpfl. Leitm. Mittelgeb., Nova Acta Acad. Leop.-Carol., XXXVIII, p. 368, n. 4, t. XIX, f. 2. — Maculis rotundatis, minoribus nigris, 0-7 circ. mm. diam. majoribus in medio pallidis, perithecia gerentibus rotunda, parvula e medio ad marginem radiata. 8313

Hab. ad folia Eugeniæ hæringianæ in marga friabili helvetiana Saint-Gall Helvetiæ, in topho basaltico aquitaniano Holaikuk, Leitmeritz Bohemiæ borealis.

5. **Phacidites Buxi** Franq. in West. in Bull. Acad. Brux. XII, n. 9, Sord. F. Atti Soc. Sc. Nat. vol. XVI, p. 426 Milano 1874. 8314

Hab. ad folia Buxi, in formatione verisimiliter quaternaria Pianico Longobardiæ Ital. bor. — *Phacidium Buxi* Franq. in West.

loc. cit. a cl. Desmazières in *Septoriam phacidioidem* Desm., XIII Not., p. 67, translatum fuit. Prof. Saccardo ad *Phomam Candollei* (B. et Br.) Sacc. Syll. III, p. 105 adduxit et nuperius *Macrophoma Candollei* (B. et Br.) a cl. Berl. et Vogl., Atti Soc. Ven. Trent. 1886, p. 178 nuncupatum. — Hæc diagnosis sec. Syll. loc. cit.: peritheciis gregariis, amphigenis, majusculis, innato-erumpentibus; sporulis oblongis, magnis, 35 ≃ 12, utrinque obtusiusculis, nubilosis, basidiis brevissimis hyalinis suffultis. — Sed si talis sit species fossilis, omnino latet.

6. **Phacidites Populi-ovalis** Al. Br. Heer Fl. tert. Helv. vol. I, p. 17, 8315
tab. 11, f. 2, vol. III, pag. 148, tab. CXLII, fig. 15 (*Phacidium*), Schimp. Tr. Pal. Vég. I, f. 2, Engelhardt, Tertiärfl. Jesuitengrabens, Nova Acta Ac. Leop.-Carol. XLVIII, n. 3, p. 310, t. VIII, fig. 9. — Maculis majusculis, 3-5 mm. diam., nigris in medio pallidioribus; peritheciis rotundatis, disco subhemisphærico pallido.

Hab. ad folia Populi ovalis, in calcareo tortoniano Œningen Helvetiæ, ad folia Salicis angustæ, in calcareo tortoniano Locle Helvetiæ, in schisto bituminoso aquitaniano, Jesuitengraben prope Kundratitz Bohemiæ borealis. — *Ph. dentato* Schm. valde similis.

7. **Phacidites Populi** Bleicher et Fliche, Note s. la Fl. plioc. du Monte 8316
Mario p. 7, f. 1 (*Phacidium*). — Peritheciis rotundatis, margine irregularibus, nigris.

Hab. in marga flavidula pliocenica superiori « Monte Mario » prope Romam Ital. centr. ad folia Populi albæ (Fliche). — Perith. 5 circ. mm. diam. Inter species fossiles accedit proxime ad *Ph. Populi-ovalis* Al. Br., si tamen idem non consideratur; inter vigentes congruit cum *Ph. dentato* Fries, sec. cl Fliche.

8. **Phacidites Feroniæ** Ettingsh. Beitr. Kennt. Tertiärfl. Steierm. 8317
Sitzungsb. k. Ak. Wiss. LX Bd., I, Abth. Wien, 1869, p. 35, t. I, f. 7, Foss. Fl. v. Leoben Denksch. ibid. LIV Bd., I, Abth. Wien 1888, p. 267 (*Phacidium*). — Peritheciis rotundatis, subimmersis, 2-3 mm. diam., disco subhemisphærico, nigro.

Hab. ad folia Fagi Feroniæ in argilla miocenica media Münzenberg, Moskenberg prope Leoben, Steiermark. — A *Ph. Populi-ovalis* Al. Br. parum distinctus.

9. **Phacidites Juglandis** Ludw. Palaeont. (Fl. Wetter) vol. VIII, p. 164, 8318
tab. LXIII, f. 5, 5 *a* (*Phacidium*), Schimp. Tr. Pal. Vég. vol. I, p. 135. — Maculis irregularibus, 5 mm. latis, circuitu emarginato, subtumido, disco pallidiore punctato.

Hab. ad folia Juglandis corrugatæ Ludw., in argilla sphærosideritica aquitaniana, Dernbach Saxoniæ Weimar, Germ. centr.

10. **Phacidites rimosus** Ludw. Palaeont. (Fl. Wetter.), vol. VIII, tab. VIII, f. 3 (*Phacidium*), Ettingsh., D. foss. Fl. d. ält. Braunkohlenf. d. Wett. Sitz. d. k. k. Ak. d. Wiss. 1868, p. 813 Schimp. Tr. Pal. Vég. vol. I, p. 135. — Peritheciis hemisphæricis, 1 mm. diam. metientibus, innatis, solitariis, disco parvulo tririmoso. 8319

Hab. ad folia Quercus, in argilla aquitaniana prope Leoben, Steiermark. — A *Ph. Eugeniarum* Heer peritheciis hemisphæricis tantum distinctus.

11. **Phacidites Gmelinorum** Heer Fl. tert. Helv. vol. I. pag. 17, tab. LXXVI, f. 12 (*Phacidium*), Schimp. Tr. Pal. Vég. vol. I, p. 135, Engelh., Tertiärfl. Leitm. Mittelg. Nova Act. Ac. Leop.-Carol. XXXVIII, n. 4, p. 368, t. XIX, f. 1. — Peritheciis rotundatis, depressis lividis, disco majori 3-4 mm. metiente, radiato-subrotundo, medio pallido. 8320

Hab. ad folia Quercus Meriani et Quercus Gmelini, in calcareo tortoniano Œningen, Helvetiæ, in schisto bituminoso aquitaniano Holaikluk prope Leitmeritz Bohemiæ borealis. — *Ph. coronato* Fr. facie similis.

12. **Phacidites Ari** Ludw. foss. Pfl. tert. Spatheisenstein von Montabauer, Palæontographica, vol. VIII, p. 164, t. LXIII, f. 7, 7 *a*, 7 *b*. (*Phacidium*). — Maculis ovalibus seu irregulariter formatis, ad marginem elevatum rugosis. 8321

Hab. ad folia Ari pertenuis Ludw. in argilla sphærosideritica aquitaniana Dernbach, Saxoniæ Weimar, Germ. centr.

13. **Phacidites Smilacis** Ettingsh. Foss. Fl. v. Bilin I, Denkschr. k. Ak. Wiss. Wien XXVI Bd. p. 86, t. II, f. 1 (*Phacidium*), Schimp. Tr. Pal. Vég. vol. III, p. 432. — Peritheciis rotundatis depressis, aggregatis, disco subangulato, pallido. 8322

Hab. ad folia Smilacis grandifoliæ, in argilla plastica mayenciana Priesen prope Bilin Bohemiæ. — Phacidio Populi-ovalis Al. Br. proximus sec. cl. Ettingshausen.

14. **Phacidites sp.** Geyler Foss. Pfl. Labuan Vega-exped. vetensk. Jakttag., Bd. IV, Stockholm 1887, p. 487, t. XXXII, f. 2 (*Phacidiopsis*). — Peritheciis ovalibus 1 mm. latis, 1,5–2 mm. longis.... 8323

Hab. ad folium indeterminatum in argilla formationis tertiariæ inferioris insulæ Labuan prope Borneo. — *Ph. coronato* Fries quodammodo similis.

15. **Phacidites umbonatus** Beck Oligocän von Mittweida Zeitschr. 8324
Deutsch. geol. Gesell. XXXIV, Bd. Hft. 4, Berlin 1882, pag. 752, tab. XXXI, f. 2 (*Phacidium*). — Peritheciis orbicularibus margine acuto cinctis, nigris, 0,5 mm. diam., ostiolo rotundato medio pertusis.

Hab. ad folium indeterminatum in lignite aquitaniana Mittweida Saxoniæ. — Inter species vigentes *Ph. Aquifolii* Schm. (*Ceuthospora phacidioides* Grev.) simillima, inter fossiles *Sphaeriti Mureti* Heer propius accedit.

16. **Phacidites communis** O. Feist. Vorbericht u. d. Perucer Krei- 8325
desch. in Böhmen u. ihre foss. Reste, Sitz. d. k. böhm. Gesell. Wiss. 1874, Prag 1874, p. 262, 266 (*Phacidium*).

Hab. ad folia varia? in schisto cenomaniano Hodkovitz, Kuchelbad, Vyscherovitz, Rounitz prope Pragam Bohemiæ. — Diagnosis desideratur.

17. **Phacidites coronatus** Fries (*Phacidium*), Bleicher et Fliche, 8326
Note s. la Fl. plioc. du Monte Mario p. 7, f. 9 *A*, *A'*, Sacc. Syll. VIII, p. 744 (*Coccomyces*).

Hab. in marga flavidula pliocenica superiori «Monte Mario» prope Romam Ital. centr. ad folia Quercus Ilicis L. var. græcæ Gaudin. — Perithecia 2 mm. diam.

18. **Phacidites spectabilis** Heer Beitr. z. näh. Kennt. d. Sächs.-thür. 8327
Braunkohlenform. p. 3, t. VI, f. 7, Abh. d. naturw, Ver. f. Sachs. u. Thür. Berlin 1861 (*Phacidium*). — Peritheciis orbiculatis, sparsis, magnis, 1,5–3 mm. latis, annulo latiusculo, levigato, impresso ornatis, medio umbonulatis.

Hab. in formatione oligocenica Skopau Silesiæ. (Cf. Friedrich, Ueb. tertiärfl. d. Umgeb. v. Halle a. S. Mittheil. d. Ver. f. Erdkunde in Halle a S. 1883 et Abhandl. z. Geol. Specialk. v. Preuss. u. d. Thüring. Staaten Bd. IV, Heft. 3).

STEGITES Fr. (*Stegia*), Sacc. Syll. VIII, p. 733, sensu latiore et quoad habitum.

1. **Stegites Poacitum** (Al. Br.). Mesch. *Phacidium? Poacitum* Al. 8328
Br. in Stizenb. Verz. pag. 71, *Stegilla Poacitarum* Heer Fl. tert. Helv. vol. I, p. 18, t. II, f. 9; Schimp. Tr. pal. Vég., vol. I, p. 138, t. I, f. 11. — Peritheciorum disco (nucleo) magno, margine tumescente nigro limitato, peritheciis junioribus omnino nigris, in medio (operculo?) umbonatis, 0,5–15 circ. mm. diam.

Hab. ad folia Graminacearum in calcareo tortoniano Œningen Helvetiæ. — *Stegiæ arundinaceæ* Fries habitu similis.

2. **Stegites? sp.** De la Harpe, Quelq. mots. s. la Fl. tert. de l'Angle- 8329
terre, Bull. Soc. Vaudoise, Sc. nat., tome V, Lausanne 1856, p. 131 (*Stegilla*).

Hab. ad folia Cyperitum in argilla alba formationis eocenicæ mediæ, Alum-Bay insulæ Wight Britanniæ austr. — Diagnosis deest.

RHYTISMITES Fries (*Rhytisma*), Sacc. Syll. VIII, p. 752, sensu latiore et quoad habitum.

1. **Rhytismites Eucalypti** Ettingsh. et Gard. Rep. on Phyto-Pal. In- 8330
vest. of the foss. Flora of Alum Bay. Proc. Roy Soc. London vol. XXX, 1880, p. 231 (*Rhytisma*).

Hab. ad folia Eucalypti in formatione eocenica media Alum Bay ins. Wight Britanniæ. — Loc. cit. nulla adest descriptio.

2. **Rhytismites palæo-acerinus** Engelh. Tertiärfl. Jesuitengr. in Nord- 8331
böhmen Nova Acta Acad. Leop.-Carol. vol. XLVIII, n. 3, Halle 1885, p. 310, t. VIII, f. 8, 8 *a*, *c* (*Rhytisma*). — Peritheciis suborbicularibus, 0,5-1 mm. diam. metientibus, rugosis, rugis radiantibus seu irregulariter dispositis.

Hab. ad folia Aceris platanoidis et Pseudoplatani in schisto bituminoso aquitaniano, Jesuitengraben prope Kundratitz Bohemiæ borealis.

3. **Rhytismites Aceris** Ettingsh. Beitr. z. Kennt. d. foss. Fl. v. 8332
Parschl. in Steierm. Denkschr. k. Ak. Wien, XXXVIII Bd. I, Abth. p. 89, t. V, f. 1,5 (*Rhytisma*). — Peritheciis rotundatis, verrucosis, in maculas irregulares confluentibus (ex icone parum distinctis).

Hab. ad folia Aceris decipientis A. Br. in schisto margaceo cinereo flavidulo tortoniano ad Parschlug, Steiermark. — A *Rhyt. Pythii* Ettingsh. sec. cl. auctorem peritheciorum exiguitate tantum distinctus.

4. **Rhytismites induratus** Heer Fl. tert. Helv. vol. III, p. 54, 149, 8333
tab. CXII, fig. 7 (*Rhytisma*), S. le Clim. et la Vég. du pays tert. p. 175, Mioc. Fl. v. Island pag. 140, t. XXIV, f. 1, Schimp. Tr. pal. Vég. I, p. 140. — Crassus, sinuoso-rotundatus, sæpius in maculam irregularem, mm. 1 diam., confluens, irregulariter dehiscens.

Hab. ad folia Aceris trilobati var. tricuspidati Heer in marga aquitaniana Hohe Rhonen, Helvetiæ et ad folia Aceris

Otopteridis Göpp., in topho arenaceo, basaltico aquitaniano Gaulthramr Thoule. — *Rh. acerino* Fries facie valde similis.

5. **Rhytismites Pythii** Ettingh. Beitr. z. Kennt. d. foss. Fl. v. Par- 8334
schl. in Steierm. Denkschr. k. Ak. Wiss. Wien, XXXVIII Bd. I, Abth. p. 88, t. V, f. 2 (*Rhytisma*). — Peritheciis rotundatis, solitariis et confluentibus, verrucosis, rimosis, 1-2,5 circ. mm. diam.

Hab. ad folia Sapindi Pythii Ung. in schisto margaceo tortoniano ad Parschlug, Steiermark. — A *Rh. Planeræ* Ettingsh. sec. cl. Ettingshausen peritheciis paullulo majoribus, planis et magis verrucosis distinctus.

6. **Rhytismites Hederæ** Heer Fl. foss. arct. vol. VI, parte II, p. 20, 8335
t. XXIV, f. 6 *a* (*Rhytisma*). — Perithecio circulari, 2-3 mm. lato, margine elevato, disco umbilicato.

Hab. ad folia Hederæ primordialis Sap. Atanekerdluck Groenlandiæ, in formatione cretacea superiori. — *Rh. Salicis* Fr. et *Rh. Populi* Heer affinis. Species huic similis ad folia Ficus angulatæ inventa fuit. (Confr. Hosius und Von der Mark, Kreideflora Westfalens, t. XXXI, f, 89).

7. **Rhytismites maculifer** Heer Fl. tert. Helv. vol. III, pag. 148, 8336
t. CXLII, f. 23 (*Rhytisma*), Schimp., Tr. Pal. Vèg. vol. I, p. 140, t. I, fig. 3, Sism. Matériaux Mem. Acc. Sc. Torino, 1855, p. 395, t. I, f. 1, *Xylomites maculifer* Heer loc. cit., vol. I, p. 19, t. I, f. 8, vol. III, p. 149. Mesch. et Squin. Fl. tert. it., p. 3, n. 7. — Orbiculatus, confluens, applanatus, levis, 0,5-1,5 mm. diam.

Hab. ad folia Grewiæ (Dombeyopsis) crenatæ Ung. in marga aquitaniana Hohe Rhonen, Helvetiæ, in calcareo argilloso aquitaniano Bagnasco Pedemontii, Ital. bor. — Ad *Rhytisma Ungeri* Mesch. verisimiliter reijciendus.

8. **Rhytismites Ungeri** Mesch. *Xylomites umbilicatus* Ung., Chl. prot. 8337
p. 3, t. I, f. 2, Gen. et sp. p. 38, Ettingsh., foss. Fl. v. Haering, Abh. k. k. Geol. Reichsanst. v. II, Wien 1855. p. 26, t. IV, f. 10, D. foss. Fl. tert.-Beck. v. Bilin Denkschr. k. Ak. Wiss. Wien, CLXXVI, Bd. I, p. 11, t. II, f. 10, Weber Palæontographica, II, t. XVIII, fig. 1, Schimp. Tr. pal. Vèg., I, p. 138, t. I, f. 8, *Rhytisma Populi* Heer Fl. tert. Helv. I, p. 20, t. II, f. 7, Schimp. loc. cit. p. 140, t. I, fig. 10. — Peritheciis rotundatis, 2-9 mm. diam. metientibus, interdum confluentibus, verrucosis atque rimosis, medio elevatis.

Hab. ad folia Bumeliæ Oreadum? Ung. in calcareo argilloso mayenciano Radoboj Croatiæ, Austriæ, ad folia nondum de-

terminata Rott prope Bonnam, Germ. austr., ad folia Populi latioris in calcareo tortoniano Œningen, Helvetiaæ, ad folia Sapotacitis mimusopsis, in argilla plastica mayenciana Priesen prope Bilin Bohemiæ bor. et etiam Holzhausen prope Homberg in Kurhessen; in marga bituminosa tongriana Haering Tiroliæ et in marga aquitaniana apud Sagor Carnioliæ Austriæ. — *Rh. salicino* Fr. valde affinis. Verisimiliter *Rh. maculifer* Heer et *Rh. grandis* Ettingsh. hic referendi sunt. Sec. cl. Ettingshausen (Foss. Fl. Sagor. Denkschr. k. Ak. Wien 1885, t. L, p. 3) hæc species ad *Xylomitem* potius pertinet quam ad *Rhytismitem*.

9. **Rhytismites sp.** Fliche Note Fl. tert. env. Mulhouse, Bull. soc. 8338
industr. Mulhouse, tome LVI, Mulhouse 1886, p. 353 (*Rhytisma*).

Hab. ad folia Myricæ in marga aquitaniana inferiore Riedisheim prope Mulhouse Alsatiæ. — Loc. cit. nulla adest descriptio.

10. **Rhytismites Hrubeschei** Ettingsh. D. Foss. Fl. tert.-Beck. v. Bi- 8339
lin Denkschr. k. Ak. Wiss. Wien, CLXXVI, I, p. 87, t. II, f. 11-12 (*Rhytisma*), Schimp. Tr. Pal. Vég. vol. III, p. 433. — Peritheciis rotundatis, circ. 6-8 mm. diam., immersis, solitariis, irregulariter rimosis.

Hab. ad folia Juglandis, in argilla plastica mayenciana Priesen prope Bilin, Bohemiæ. — A *Rh. Ungeri* Mesch. et a *Rh. Juglandis* Ettingsh. sec. cl. Ettingshausen, peritheciis majoribus, magis immersis et rimis magis conspicuis distinctus.

11. **Rhytismites parschlugianus** Ettingsh. Beitr. z. Kennt. d. foss. Fl. 8340
v. Parschl. in Steierm. Denkschr. k. Ak. Wiss. Wien, XXXVIII Bd. I, Abth. pag. 89, tab. V, f. 6 (*Rhytisma*). — Peritheciis parvis, rotundatis, sublevibus, applanatis, in maculas irregulares confluentibus.

Hab. ad foliola Juglandis parschlugianæ Ettingsh. in schisto margaceo tortoniano ad Parschlug in Steiermark. (Ex icone parum distinctus)

12. **Rhytismites Juglandis** Ettingsh. Die foss. Fl. d. Tert.-Beck. v. 8341
Bilin Denkschr. k. Ak. Wiss. Wien, CLXXVI Bd. I, p. 11, t. II, fig. 5 (*Rhytisma*), Schimp. Tr. Pal. Vég. vol. III, p. 433. — Peritheciis rotundatis vel confluentibus, valde verrucosis rimosisque, macula mm. 1 et ultra latis.

Hab. ad folia Juglandis in argilla plastica mayenciana, Priesen prope Bilin Bohemiæ. — A *Rh. Ungeri* Mesch. propter matricis diversitatem distinctus, et præter, hoc propter magnitudinem, dispositionem et peritheciorum rimas irregulares diversus.

13. **Rhytismites? borealis** Heer Mioc. Fl. v. Nordgrönland p. 86, t. I, 8342
f. 1, D. Tert. Fl. v. Grönl. p. 48 (*Rhytisma*). — Peritheciis verruciformibus, convexis, rimosis, 1,5 mm. diam.

Hab. ad folia Fici groenlandicæ in calcareo ferruginoso firmo miocenico Atanekerdluk Groenlandiae.

14. **Rhytismites ulmicola** Ettingsh., Foss. Fl. v. Leoben, Denkschr. k. 8343
Ak. Wiss. LIV, Bd. I, Abth., Wien 1888, p. 269, t. II, f. 1', 1 *a* (*Rhytisma*). — Peritheciis minutis, 0,10 circ. mm. diam., punctiformibus, plerumque confluentibus, verrucosis, rimosis.

Hab. ad folia Ulmi Bronnii in argilla aquitaniana Münzenberg prope Leoben Steiermark. Sec. cl. Ettingsh. cum *Rh. Planeræ* Ettingsh. valde convenit, a quo propter perithecia minora distinguitur.

15. **Rhytismites Ulmi** Ludw. Palæontogr. vol. VIII, p. 56, tab. VIII, 8344
fig. 5, Ettingsh. D. foss. Fl. d. ält. Braunkohlenf. d. Wett. Sitz. d. k. k. Ak. d. Wiss. 1868, pag. 814, Schimp. Tr. Pal. Vég. vol. I, p. 140. — Stromatibus orbiculatis planis haud raro confluentibus, versus medium rugulosis, 0,5-1 mm. diam. disco (fructu) papilloso margine granuloso elevato.

Hab. ad folia Ulmi Bronni in lignite mayenciana Salzhausen in agro vogelsborgensi Hassia Darmst. Germ. centr. — Sec. cl. Ettingshausen species hæc potius ad genus *Sphæritem* pertinet.

16. **Rhytismites Planeræ** Ettingsh., Beitr. z. Kennt. d. foss. Fl. v. 8345
Parschl. in Steierm. Denkschr, k. Ak. Wiss. Wien, XXXVIII Bd. I, Abth. pag. 88, t. IV, f. 1, 10 (*Rhytisma*). — Peritheciis minutis, rotundatis, 1-2 circ. mm. diam., sæpe confluentibus, verrucosis, rimosis.

Hab. ad folia Planeræ Ungeri in schisto margaceo tortoniano ad Parschlug Steiermark. — A *Rh. Feroniæ* Ett. propter peritheciorum verrucositatem tantum distinctus.

17. **Rhytismites Feroniæ** Ettingsh. D. Foss. Fl. tert.-Beck. v. Bilin 8346
Denkschr. k. Ak. Wiss. Wien, CLXXVI Bd. I, p. 11, t. II, f. 7-9 (*Rhytisma*), Beitr. Kennt. Tertiärfl. Steiermarks, Sitz. k. Ak. Wiss. LX Bd., I Abth., Wien 1869, p. 20, Foss. Fl. Leoben Denkschr. ibid. vol. LIV, I Abth. Wien 1888, p. 269, Schimp. Tr. Pal. Vég. vol. III, p. 433. — Peritheciis parvis, 0,25-2 mm. diam., irregulariter rotundatis, sæpe confluentibus, rimosis.

Hab. ad folia Fagi Feroniæ in argilla plastica mayenciana, Priesen prope Bilin Bohemiæ et in argilla miocenica media Moskenberg prope Leoben, Steiermark.

18. **Rhytismites Milleri** Ettingsh. Beitr. z. Tertiärfl. Steierm., Sitzugsb. 8347
k. Ak. Wiss. LX, Band I, Abth. Wien 1869, pag. 36, t. I, f. 5, Foss. Fl. v. Leoben Denkschr. ibid. LIV, Band I, Abth. Wien 1888, pag. 270 (*Rhytisma*). — Peritheciis rotundatis, 2-2,5 mm. latis, interdum confluentibus, squamoso-verrucosis rimosisque.

Hab. ad folia Fagi Feroniæ in argilla aquitaniana Moskenberg et Münzenberg prope Leoben Steiermark. Sec. cl. Ettingsh. *Rh. Feronicæ* Ettingsh. propter perithecia majora et prominula, a *Rhyt. Ungeri* Mesch. propter peritheciorum formam distinguitur.

19. **Rhytismites Geinitzii** Ettingsh. Beitr. z. Tertiärfl. Steierm., Sit- 8348
zungsb. k. Ak. Wiss. LX, Band I, Abth. Wien 1869, pag. 36, t. I, f. 4, Foss. Fl. v. Leoben Denkschr., ibid. LIV, Band I, Abth., Wien 1888, p. 269 (*Rhytisma*). — Peritheciis parvis, 0,5-2 mm. diam. rotundatis sæpe confluentibus, verrucosis rimosisque.

Hab. in argilla aquitaniana prope Leoben Steiermark ad folia Castaneæ ataviæ. — *Rhyt. Ungeri* Mesch. similis.

20. **Rhytismites sp.** Geyler Ueb. Tertiärfl. Stadecken-Elshein., Jaresb. 8349
Senckenberg naturf. Gesell. 1873-74, Frankfurt 1875, p. 107 (*Rhytisma*).

Hab. ad folia Castaneæ in arena aquitaniana inferiori Stadecken-Elsheim in Rheinhessen, Germ. centr. — Lata macula ad folii marginem sita totum inter nervos secundarios spatium detinens.

21. **Rhytismites grandis** Ettingsh. Foss. Fl. Sagor in Krain, Denkschr. 8350
k. Ak. Wiss. L Band, I Abth. Wien 1885, p. 2, t. XXVIII, f. 1 (*Rhytisma*). — Peritheciis magnis, rotundato-ovalibus, 3-5 mm. latis, 3-7 mm, longis, sinuosis, irregulariter dehiscentibus.

Hab. ad folia dycotiledonea nondum determinata in marga aquitaniana pr. pagum Savine Carnioliæ. — A *Rh. Ungeri* Mesch. paulo diversus.

22. **Rhytismites sp.** Geyler Foss. Pfl. Labuan Vega-exped. vetensk. Iakt- 8351
tag. Bd. IV, Stockholm 1887, p. 488, t. XXXII, f. 4 (*Rhytismopsis*). — Peritheciis rotundatis circ. 1,5-2,5 mm. diam., seriatim aut irregulariter dispositis, nucleo centrali unico v. duplici præditis.

Hab. ad folium inderminatum in argilla formationis tertiariæ inferioris insulæ Labuan pr. Borneo. — *Rh. umbonato* Rabenh. similis.

23. **Rhytismites priscus** Ettingsh. et Garden Report an Phyto-Pal. 8352
Invest. of the foss. Fl. of Alum. Bay, Proc. Roy. Soc. London vol. XXX, 1880, p. 231 (*Rhytisma*).

Hab. in argilla alba formationis cocenicæ mediæ, Alum Bay ins. Wight Britanniæ austr. — Diagnosis desideratur,

Cohors 6. **Sphæropsideæ.**

DEPAZITES Fr. (*Depazea*), Sacc. Syll. III, p. 62 sensu latiore, seu complectens fungillos maculicolas phyllogenos omnes (*Phyllosticta*, *Septoria*, *Ascochyta* etc.). Etiam genus ascophorum *Sphærella* sæpius eamdem faciem induit.

1. **Depazites acericola** Sap. Ét. s. la végét. du Sud-est de la France III, Ann. Sc. Nat., 5me sér. Bot. tome IX, 1868, pag. 16, tab. I, fig. 5 (*Depazea*). — Maculis pallidis, rotundatis, limbo nigrescente circumdatis, sparsim punctulatis, 2 circ. mm. diam. 8353

   Hab. ad folia Aceris angustilobi Heer, in argilla helvetiana in «bassin de Marseille» Galliæ. — *Dep. picto* Heer affinis.

2. **Depazites pictus** Heer Fl. tert. Helv. I, p. 16, t. II, f. 6 (*Depazea*), Ludw. Palæontographica VIII, p. 54, t. VIII, f. 8, Ettingsh. Foss. Fl. ält. Braunkohlenform. Wett. Sitz. k. Ak. Wiss. 1868, pag. 813, Schimp. Tr. pal. Vég. I, p. 136, t. I, f. 9, Engelh. Tertiärpfl. Leitm. Mittelg. Nova Acta Acad. Leop. Carol. XXXVIII, n. 4, pag. 366, t. XVIII, f. 14, Engehl. Tertiärfl. Jesuitengrabens Nova Acta Acad. Leop.-Carol XLVIII, n. 3, p. 310, t. VIII, f. 5, 7. — Maculis polygonis pallidis, limbo nigro circumdatis, sec. cl. Ludw. ad millimetrum metientibus, sec. Heer 6 mm. metientibus. 8354

   Hab. ad folia Aceris trilobati in calcareo tortoniano Œningen Helvetiæ et in argilla aquitaniana, Salzhausen Hassiæ Darmst. Germ. centr. et ad folia Salicis mediæ, Münzenberg prope Leoben, Steiermark, in argilla aquitaniana. Etiam ad folia Salicis in schisto bituminoso aquitaniano, Jesuitengrabens prope Kundratiz Bohemiæ bor. et in topho basaltico aquitaniano Holaikluk, Leitmeritz Bohemiæ borealis. — A *Dep. Feroniæ* Ettingsh., maculis majoribus et regularioribus, limbo etiam distinctus.

3. **Depazites Andromedæ** Sap. Derniéres adjonctions à la Fl. foss. d'Aix en Provence Ann. Science nat., Botaniquc, 1808 p. 7, t. IX, f. 12 (*Depazea*). — Maculis irregulariter expansis, contermine polygonulis, pallide fuscis, in pagina foliis sparsis, tenuissime nigro-punctulatis. 8355

   Hab. ad folia Andromedæ ataviæ Sap. in calcareo liguriano Aix Narbonne Galliæ.

4. **Depazites cinnamomeus** Sap. Ét. s. la végét. du Sud-est de la France, III, Ann. Sc. nat. 5me sér. Bot. tome IX, 1868, p. 17, t. I, f. 6, t. V, f. 3 (*Depazea*). — Maculis orbiculatis, centro depres- 8356

siusculis, linea marginali cinctis, receptaculis hypophyllis, dense confertis, punctiformibus, concavis, 2 mm. diam.

Hab. ad folia Cinnamomi Buchii et C. polymorphi in argilla helvetiana in «bassin de Marseille» Galliæ.

5. **Depazites priscus** Mass. Syll. pl. foss. p. 17 Mesch. et Squin. Fl. 8357
tert. it., p. 2 (*Spilosphæriles*).

Hab. ad folia Eugeniæ laurifoliæ Mass., in calcareo eocenico «Monte Bolca» in agro veronensi Italiæ bor. — Diagnosis desideratur.

6. **Depazites oblongus** Mass. Lett. a Scarab. p. 9, n. 6 (*Spilosphæri-* 8358
tes), Synops. Fl. Foss. Senog. p. 4, Fl. foss. Senig. t. I, fig. 6, 7, Mesch. et Squin.. Fl. tert., p. 1. — Maculis lineari-ellipticis, sparsis, solitariis, 5–9 mm. longis, 1–2 mm. latis.

Hab. ad folia Myricæ Parlatorii Mass., in marga gypsosa miocenica Senogallia in agro umbro, Ital. centr.

7. **Depazites Lomatiæ** Engelh. Tertiärpfl. a. d. Leitmer Mittelgebirge, 8359
Nova Acad. Leop.-Carol. vol. XXXVIII, n. 4, 1876, pag. 367, t. XVIII, f. 14 (*Depazea*). — Maculis irregulariter polygonis, nigris, medio pallidioribus, magnitudine variantibus inter 1-7 mm.

Hab. ad folia Lomatiæ Heeri Engelh. in topho basaltico aquitaniano Holaikluk, Leitmeritz, Bohemiæ borealis.

8. **Depazites increscens** (Al. Br.) Heer Fl. tert. Helv., vol. I, p. 16, 8360
t. I, f. 7 (*Depazea*), Schimp. Tr. pal. Vég. I, pag. 136, t. I, f. 4, Ettingsh. Beitr. z. Kennt. d. foss. Fl. v. Parschlug Denkschr. k. Ak. Wiss. Wien, XXXVIII Bd. I, Abth. p. 8), *Sphæria increscens* Al. Br. in Stizenb. Verz. p. 71. — Maculis rotundatis, 4-8 mm. diam., disco dense nigro-punctatis.

Hab. ad folia Populi mutabilis v. ovalis in calcareo tortoniano Œningen Helvetiæ et in marga tortoniana Parschlug Steiermark. — *Spheriæ tremulæcolæ* et *frondicolæ* Fries similis.

9. **Depazites Ulmi** Ettingsh. Foss. Fl. Tert. Beck, Bilin I, Denkschr. 8361
Ak. Wiss. Wien XXVI Bd., p. 85 (*Depazea*), Schimp. Tr. Pal. Vég. vol. III, p. 422 (ex err. sub *Depazea Ungeri*). — Maculis orbiculatis, 0,5-3 mm. diam. in ambitu nigris, medio pallidis, disco nigro-punctatis.

Hab. ad folia Ulmi in argilla plastica mayenciana, Priesen prope Bilin Bohemiæ.

10. **Depazites Feroniæ** Ettingsh. Die foss. Fl. d. Tert.-Beck. v. Bilin 8362
I, l. c. p. 85, t. I, f. 18, Foss. Fl. Leoben Denkschr. k. Ak. Wissensch. LIV Bd. I Abth. p. 267 (*Depazea*), Schimp. Tr. Pal. Vég. vol. III,

p. 432. — Maculis rotundatis vel irregulariter polygonatis, 0,25–2,5 mm. latis, pallidis, limbo fusco circumdatis.

Hab. ad folia Fagi Feroniæ in argilla plastica aquitaniana prope Leoben, Steiermark. — A *Depazite picto* Heer maculis irregulariter polygonatis et limbo pallidiore notatis distinctus.

11. **Depazites Palæo-Alni** Ettingsh. Foss. Fl. v. Leoben in Steierm. I, Theil. Denksch. Ak Wiss. LIV Band, I Abth. Wien 1888, p. 267, t. I, f. 11 (*Depazea*). — Maculis orbiculatis, medio pallidis, 1-2 mm. latis, limbo nigro tenui circumdatis. 8363

Hab. in argilla miocenica media prope Leoben, Steiermark ad folia Alni Kefersteini et Juglandis sp. — Sec. cl. Ettingsh. a *Dep. groenlandico* Heer, limbo circumdante tenuiore tantum differt.

12. **Depazites groenlandicus** Heer Fl. Foss. Arct. vol. VII, pag. 48, t. LXXXIII, f. 10 (*Depazea*). — Maculis orbiculatis, medio pallidis, 1 mm. latis, limbo nigro circumdatis. 8364

Hab. ad folia Juglandis denticulatæ? Heer in marga argillosa brunnea miocenica, Atanekerdluk Groenlandiæ.

13. **Depazites Smilacis** Heer Fl. ter. Helv. vol. I, pag. 16, tab. II, f. 5 (*Depazea*) Schimp. Tr. Pal. Vég. vol. I, p. 136. — Maculis orbicularibus in ambitu fusco-atris, in medio pallidis nigroque punctatis, 4 circ. mm. diam. 8365

Hab. ad folia Smilacis sagittatæ Ung. in calcareo tortoniano Œningen Helvetiæ. — *Dep. cruentæ* habitu valde similis.

14. **Depazites Rabenhorstii** Gein. D. Verstein. d. Steinkh. in Sachsen, p. 3, t. XXV, f. 10, 10 *a*, *A* (*Depazea*). Schimp. Tr. pal. Vég. I, p. 142. — Ellipticus ad 4-5 mm. long., margine leniter annulato-elevato, disco concaviusculo, centro poro minuto rotundo pertuso. 8366

Hab. ad folia Hymenophyllitis dichotomi Gutb. formationis carboniferæ, Oberhohndorf Saxoniæ. — A cl. Rabenh. cum *Dep. smilacicola* Rab. et *Rhytis. Salicis* Fr. comparatus. Sec. cl. Schimp. ad genus *Excipula* potius referendus.

15. **Depazites maculans** Mass. Lett. a Scarab. p. 8, n. 5 (*Spilosphæ-rites*), Synops. Fl. Foss. Senog. p. 4, Fl. foss. Senig. t. I, f. 2, 3, 13, 14, Mesq. et Squin., Fl. tert. it. p. 1. — Maculis irregularibus punctulatis, sparsis, solitariis aggregatisve, 1-5 mm. diam. 8367

Hab. ad folia varia in marga gypsacea tortoniana Senogallia in agro Umbro, Ital. centr. — *Depazeæ vaganti* Fries habitu proximus.

16. **Depazites stilbosporoides** Mass. Lett. a Scarab. pag. 8, n. 4, (*Spi-* 8368

Isosphæriles) Synops. Fl. Senog. p. 4, Fl. foss. Senig. t. I, f. 9–10, Sacco Piano Messiniano p. 386 (*Sphærites*), Mesch. et Squin., Fl. tert., it. p. 1 (*Spilosphæriles*). — Peritheciis immersis, 1–3 mm. diam., convexis, rotundis, corneis, majusculis.

Hab. ad folia varia in marga gypsacea tortoniana, Senigallia in agro umbro Ital. med. in formatione pliocenica inferiori (Messiniano) Pedemontii. — *Sphæriis* et *Stilbosporis* viventibus habitu similis.

EXCIPULITES Fr. (*Excipula*), Sacc. Syll. III, p. 665, sensu latiore et quoad habitum.

1, **Excipulites Callipteridis** (Schimp.) Kid. Foss. Fl. of the Radstock 8369
Series, Trans. Roy. Soc. Edinburgh, vol. XXXIII, p. II, 1887, p. 339, *Excipula Callipteridis* Schimp. Tr. pal. Vég. I, p. 142, t. XXXII, fig. 6, 7, Weiss. Foss. Flora Jüng. Steink. Roth. in Saar-Rheing. p. 19, 78, Lesquer. Coal Fl. of Pennsylv. vol. I, p. 207, t. XXXVIII, Zeiller Bull. soc. géol. de France, 3ª ser., vol. XII, p. 192. — Peritheciis rotundatis sparsis, medio ostiolatis, 1 circ. mm. diam.

Hab. ad foliola Callipteridis confertæ in formatione carbonifera, Saarbrücken Borussiæ, et in eadem formatione ad pinnulas Sphenopteridis neuropteroidis, Radstock, Somerset Anglia. — Olim ut fructus filicum consideratus est. Ab *Ex. Neesii* Göpp. parum distinctus.

2. **Excipulites punctatus** Grand'Eury Mém. Fl. carb. Départ. Loire 8370
Mém. Acad. Sc. Inst. nat. France, Tome XXIV, n. 1, pag. 10. — Peritheciis lenticularibus facile collabentibus, numerosis, inæqualiter dispositis, ostiolo crateriformi pertusis.

Hab. ad pinnulas Pecopteridis Plukeneti in formatione carbonifera superioris Ligeris superioris Galliæ. — *Exc. Neesii* Göpp. et Gein. habitu simillimus.

3. **Excipulites Neesii** Göpp. Foss. Farren p. 262, t. XXXVI, f. 3, 4, 8371
Gen. pl. foss. IV, t. V, f. 4, Ung. Gen. et Spec. p. 39, Geinitz Verstein. d. Steinkoh. in Sachsen p. 3, t. XXIII, f. 13, Roehl. foss. Flora Steinkoh. Westphal. Palæontographica, vol. XVIII, p. 7, Schimp., Tr. pal. Vég., I, p. 141, t. I, f. 19, Stur. Morph. Syst. Culm-u. Carbonfarne, Sitz. d. k. Ak. Wiss. LXXXVIII Bd. I Abth. Wien 1883, p. 831, Carbon-Flora Schatzlarer Schicten. Abhandl. d. k. k. Geol. Reichsanst., XI Bd., I Abth., p. 292. — Peritheciis subinnatis, demum exsertis, 1,5 mm. metientibus, subhemisphæricis, ostiolo rotundo margine inflexo.

Hab. ad pinnulas Hymenophyllitis geniculati Goepp., Sphenopteridis et ad folia Macrostachyæ infundibuliformis (Gein.) Schimp. prope Waldenburg Silesiæ, Ibbenbüren Westfaliæ, in formatione carbonifera.

4. **Excipulites hymenomycetes** Göpp., Preisschr. Abhandl. eing. als Antw. a. d. Preisfrage, Naturk. Verh. Holl. Maatsch. Haarlem, Tweede Verzamel. 4e Dell Haarlem, 1848, p, 81. 8372

Hab...... (dignosis et locus mihi desiderantur).

Cohors 7. **Hyphomyceteæ.**

OIDITES Link (*Oidium*), Sacc. Syll. IV, p. 40, sensu latiore.

1. **Oidites moniliformis** Menge u. Göpp. in Göpp. Ueb. die Bernsteinflora, Monatsbericht kön. preuss. Ak. Wiss. Berlin 1853, p. 453 (*Oidium*). 8373

Hab. in succino Borussiæ. — Loc. cit. nulla adest descriptio.

2. **Oidites thuigenus** Göpp. u. Menge in Göpp. Ueber die Bernsteinflora, Monatsbericht kön. preuss. Ak. Wiss. Berlin 1853, pag. 453 (*Oidium*). 8374

Hab. in succino ad ramulum Thuitis Kleiniani (= Thujæ occidentalis) in Borussia. — Forma valde speciosa. Diagnosis desideratur.

BOTRYTITES Mich. (*Botrytis*), Sacc. Syll. IV, p. 116.

1. **Botrytites similis** Menge u. Göpp in Göpp. Ueber die Bernsteinflora Monatsbericht kön. preuss. Ak. Wiss. Berlin 1853, p. 453 (*Botrytis*). Valde similis *Botr. Bassianæ* v. *Botr. tenellæ* (C. G. Carus, Beitrag zur. Geschichte der unter Massen von verwesenden Thierkörpern sich erzeugenden Schimmel oder Algengattungen. Nova Acta phys. med. Acad. Caes. Leopold.-Carol. N. Cur. tom. XI, Bonn 1832, p. 499, t. I, VIII, f. 15). 8375

Hab. in succino ad corpus insecti cujusdam in Borussia. — Deest descriptio.

PENICILLITES Link (*Penicillium*), Sacc. Syll. IV. p. 78.

1. **Penicillites curtipes** Berkeley Mould Amber. East Prussia p. 13, t. XI, f. 1 (*Penicillium*), Annals and Mag. of Nat. Hist. 1848, 2d. ser. II, p. 380, Göpp. Ueb. Bernsteinfl. Monatsber. kön. Ak. Wiss. Berlin 1853, p. 453, Ueb. Braunkohlenfl. Nordöst. Deutschl. Zeitschr. Deutsch. geol. Gesell. Berlin, 1852, p. 488. — Candidus, my- 8376

celio parco; ramulis subhorizontaliter laxe egredientibus, quadriarticulatis, demum divisis; conidiis ellipticis, 2,5 ≈ 2.

Hab. in succino Borussiæ orientalis. — *Penicillio sparso* affinis, sed stipitibus brevioribus diversus.

SPOROTRICHITES Link (*Sporotrichum*), Sacc. Syll. IV, p. 96, sensu latiore.

1. **Sporotrichites heterospermus** Göpp. in Berendt Die im Bernstein befindl. organ. Reste Vorwelt, t. VI, f. 42-46, Ueber Bernsteinflora Monatsbericht kön. preuss. Ak. Wissensch. Berlin 1853, p. 452, Ung. Gen. et Sp. pl. foss. p. 40, Göpp. Ueb. Braunkohlenfl. Nordöstl. Deutschl. Zeitschr. Deut. geol. Gesell. Berlin, 1852, pag. 488. — Floccis virgatis, ramosis, fastigiatis, ramis erectis, conidiis globosis inæqualibus biformibus obtectis. 8377

Hab. ad insecta (Hymenoptera vel Diptera) succino inclusa ad mare Balticum. — Species Sporotrichis viventibus simillima.

2. **Sporotrichites densus** Göpp. u. Menge Ueb. d. Bernsteinflora, Monatsbericht k. Ak. Berlin 1853, p. 452. 8378

Hab. in succino Borussiæ. — In albo fragmento insectorum operculi magnus parvularum sporarum invenitur numerus identicarum vel similium illis *Sp. densi*, quod raro hodierna demortua insecta operit. — Diagnosis desideratur.

3. **Sporotrichites intricatus** Göppert u. Menge Ueber die Bernsteinflora Monatsber. kön. preuss. Ak. Wiss. Berlin 1853, p. 452. 8379

Hab. in succino Borussiæ. — Ubi diagnosis reperiatur, latet.

STREPTOTRICHITES Corda (*Streptothrix*), Sacc. Syll. IV, p. 282.

1. **Streptotrichites spiralis** Berkeley Mould Amber East Prussia p. 14, tab. XII, f. 1, 2, Annals and Mag. of Nat. Hist. 1848, 2d ser. II, pag. 380 (*Streptothrix*), Göpp. Ueb. Bernsteinfl. Monatsber. kön. Ak. Wiss. Berlin 1853, pag. 453, Ueb. Braunkohlenfl. Nordöst. Deutschl. Zeitschr. Deut. geol. Gesell. Berlin 1852, p. 488. — Floccis omnibus plus minus spiraliter convolutis, ramosis, fasciculatis; conidiis ellipticis 2,5–3 μ. diam., filamentis v. apice ramulorum exilissimorum brevium insertis. 8380

Hab. in succino Borussiæ orientalis.

BRACHYCLADITES Berkeley Mould Amber East Prussia p. 14 (*Brachycladium*), The Annals and Mag. of Nat. Hist. 1848, 2d ser. II,

p. 380. — Receptaculum stipitiforme e fibris intricatis constipatum, sursum attenuatum sive laceratum, ramis brevibus fertilibus simplicibus hic illic sparsis; conidia elliptica, sessilia v. brevissime pedicellata.

1. **Brachycladites Thomasinus** Berk. loc. cit. t. XI, f. 2, *a*, *b*, Göpp. Ueb. Bernsteinfl. Monatsbericht kön Ak. Wiss. Berlin 1853, p. 453, Ueb. Braunkohlenfl. Nordöst. Deutschl., Zeitschr. Deut. geol. Gesell. Berlin 1852, p. 488. — Char. gen. Conidia 1,7 = 1-1,2. 8381

Hab. in succino Borussiæ orientalis. — A typo generis Cordæano (subgeneris *Dendryphii* sec. Sacc.) deflectit hyphis fasciculatis, qua nota ad Stilbeas referri debet.

APPENDIX

MYCELIA.

XYLOMITES Pers. (*Xyloma*). — Stroma discoideum, crassum, integrum vel emarginatum, superficie inæquale, in medium plus minus distincte umbonatum.

1. **Xylomites Cassiæ** Engelh. Ueb. Cypr. Nordböhm. u. ihre Pfl. Einschl. Sitz. naturw. Ges. Isis, Jahrg. 1879, Hfl. III, Dresden, 1879, p. 135, t. VII, f. 2. — Maculis planis, rotundatis seu quadrangularibus, 0,75-1 mm. diam. 8382

Hab. ad folium Cassiæ Fischeri Heer in argilla tortoniana inf. Krottensee Bohemiæ.

2. **Xylomites protogæus** Heer Fl. tert. Helv. vol. I, p. 9, t. I, f. 12, Schimp. Tr. Pal. Vég. vol. I, p. 138, Kaufmann Beitr. geol. Karte Schweiz, XXIV, Lief. I, Th. Bern 1886, pag. 503, *Hysterium protogæum* Heer Uebers. d. Tert. Pfl. d. Schw. p. 49. — Maculæ minutæ, nigræ, 0,25-0,5 mm. diam., disco albo nigro marginato. 8383

Hab. ad folia Corni in marga mayenciana Eriz Helvetiæ.

3. **Xylomites Rhamni-Aizoonis** Ettingsh. Beitr. z. Kennt. d. foss. Fl. v. Parschl. in Steierm. Denkschr. k. Ak. Wiss. Wien, XXXVIII Bd. I, Abth. pag. 86, tab. III, f. 9. — Peritheciis minutis 0,25-1 mm. diam., irregulariter rotundatis, disco tuberculato parum distincto. 8384

Hab. ad folia Rhamni Aizoonis in schisto margaceo tortoniano ad Parschlug in Steiermark. — Sec. cl. Ettingshausen a *X. Liquidambaris* peritheciis minoribus et magis irregulariter dispositis distinctus.

4. **Xylomites Pistaciæ** Ettingsh., Beitr. z. Kennt. d. foss. Fl. v. Par- 8385

schl. in Steierm., l. c. p. 87, t. IV, f. 8. — Maculas rotundatas 1 circ. mm. latas, pallidas, medio puncto nigros notatas formans.

Hab. ad foliolum Pistaciæ lentiscoides Ung., in schisto margaceo tortoniano ad Parschlug Steiermark.

5. **Xylomites moskenbergensis** Ettingsh. Foss. Fl. v. Leoben, Denkschr. k. Ak. Wiss. LIV Bd., I Abth. Wien 1888, p. 268, t. I, f. 12. — Maculas 2 mm. latas, rotundatas, fuscas formans, disco medio pallidiore indistincto. 8386

Hab. ad folia Rhois moskenbergensis Ettingsh. in argilla miocenica media prope Leoben, Steiermark.

6. **Xylomites Aceris-decipientis** Ettingsh. Beitr. z. Kennt. d. foss. Fl. v. Parschl. in Steierm. Denkschr. k. Ak. Wiss. Wien, XXXVIII Bd. I. Abth. p. 88, t. IV, f. 11. — Maculas rotundatas, minutas 2 mm. et amplius latas, nigras, medio disco albo notatas formans. 8387

Hab. ad folia Aceris decipientis Al. Br. in schisto margaceo tortoniano ad Parschlug Steiermark. — A *X. Aceris* Heer parum diversus.

7. **Xylomites Aceris** Heer Fl. tert. Helv. vol. I, p. 20, tab. I, f. 10, Schimp. Tr. Pal. Vég. vol. I, p. 138. — Maculis circularibus fuscis 1-2 circ. mm. diam., medio puncto albo nigro-marginato notatis. 8388

Hab. ad folia Aceris integrifolii et Aceris tricuspidati in calcareo tortoniano, Œningen Helvetiæ.

8. **Xylomites maculatus** Ung. Gen. et Spec. p. 38. — Perithecio innato subrotundo plano, disco centrali medio impresso. 8389

Hab. ad folia Ilicis? in marga tortoniana ad Parschlug Stiriæ.

9. **Xylomites Zyzyphi** Ettingsh. Die tert. Fl. v. Haering p. 26, t. IV, f. 4-7, Abh. k. k. geol. Reichsanst. II Bd., 3 Abth., n. 2, Wien 1855, Staub. Med. Pfl. Baranyaer Com., Mitt. Jahrb. k. ung. geol. Anst. VI Bd., 2 Hft. Budapest 1882, p. 29, t. I, f. 2, 2 *a*. — Peritheciis transverso-ellipticis, 0,5-2 mm. diam., planis, habitu *Xylomatum*. 8390

Hab. ad folia Ceanothi zizyphoidis Ung. in marga bituminosa tongriana ad Haering Tiroliæ et ad folia Zizyphi paradisiaci (Ung.) Heer in formatione tertiaria Komlóthale in Comitatu Baranyensi Hungariæ.

10. **Xylomites Santali** Ettingsh. Foss. Fl. Schönegg, Denkschr. k. Ak. Wiss. Wien, LVII Bd., p. 6, t. I, f. 9-11. — Maculas rotundatas, 1,5-4 mm. diam., nigras formans, disco pallidiore. 8391

Hab. ad folia Santali styriaci Ettingsh. in argilla subflava Neu-Josephi-Tagbau, Johanni-Stollen, Maria-Stollen prope Wies,

Steiermark. — Sec. cl. Ettingshausen a *Xyl. vario* Heer forma et magnitudine ludibunda peritheciorum diversus.

11. **Xylomites daphnogenes** Heer Fl. tert. Helv. I, p. 20, t. I, f. 11, Ludw. Palæontographica, vol. VIII, pag. 56, t. XLII, f. 1, 6, Ettingsh. Braunkohlenform. d. Wetterau Sitz. k. Ak. Wiss. 1868, p. 814, Schimp. Tr. pal. Vég. I, p. 138, Ettingsh. Foss. Fl. Leoben Denkschr. k. Ak. Wiss. LIV, I Abth., p. 268, Sordelli Av. Vég. arg. pl. lomb. Atti Soc. It. Sc. nat. XVI, p. 387, t. f. 22, Mesch. et Squin. Fl. tert. ital. p. 7, n. 7. — Maculis rotundatis, fuscis, 1,5-2 mm. diam. metientibus, disco pallido indistincte limitato. 8392

Hab. ad folia Cinnamomi polymorphi in calcareo tortoniano Œningen Helvetiæ, in argilla aquitaniana prope Leoben, Steiermark boreal., in argilla pliocenica «Folla d'Induno» Longobardiæ Italiæ borealis.

12. **Xylomites Perseæ** Engelh. Tertiärpfl. Leitm. Mittelgeb. Nova acta Acad. Leop.-Carol. vol. XXXVIII, n. 4, Dresden 1876, p. 368, t. XIX, f. 3. — Maculis irregularibus, nigris (lentis ope) e punctis atris perexiguis formatis, secus nervos secundarios insidentibus, 1 mm. et amplius latis. 8393

Hab. ad folia Perseæ speciosæ Heer in topho vulcanico aquitaniano Holaikluk Leitmeritz Bohemiæ borealis.

13. **Xylomites Lauri** Ettingsh. Beitr. z. Kennt. d. foss. Fl. v. Parschl. in Steierm. Denkschr. k. Ak. Wiss. Wien, XXXVIII Bd. I, Abth, p. 87, t. III, f. 6. — Peritheciis minutis circ. 1 mm. diam., rotundatis, disco umbilicato, medio elevato. 8394

Hab. in foliis Lauri in schisto margaceo tortoniano ad Parschlug Steiermark. — A *Rhytismate Ungeri* Mesch. parum diversus.

14. **Xylomites? sp.** Geyler Ueb. foss. Pfl. obertert. Ablag. Sicil. Palæontogr. XXIII, Bd. Cassel 1876, p. 321, t. I, f. 1, Mesch. et Squin. Fl. tert. ital. p. 8. 8395

Hab. ad folia Myricæ salicinæ Ung. in tripoli messiniano ad Calatanixetam insulæ Siciliæ. — Perithecia circ. 1 mm. diam.

15. **Xylomites lignitum** Ettingsh. Beitr. Tertiärfl. Steiermarks Sitzungsb. Ak. Wien vol. LX, I, p. 18, t. I, f. 1, Foss. Fl. Schönegg. Denkschr. k. Ak. Wiss. Wien, LVII Bd. p. 7. — Maculas parvas ellipticas circ. 0,5-1 mm. latas formans, disco pallidiore subrotundo vix distincto. 8396

Hab. ad folia Myricæ lignitum in argilla subflava Neu-Josephi-Tagbau, Johanni-Stollen prope Wies Steiermark in eadem

specie ad Leoben, in argilla miocenica media et in marga miocenica superiori Parschlug, Steiermark. — A *X. vario* Heer v. *Salicis* propter macularum formam et earum marginem distinctus sec. cl. Ettingshausen.

16. **Xylomites sagorianus** Ettingsh. Foss. Fl. v. Sagor, Denkschr. k. Ak. Wiss. Wien, Bd. XXXII, 1872 pag. 160, t. I, f. 7, 9, 10, 13, 14, Voss. Wilh. Mat. z. Pilzk. p. 248. — Maculas rotundatas nigras, sæpe vix distinctas formans, disco albo. 8397

Hab. ad folia Pisoniæ eocenicæ et Fici tenuinervis Ett. in marga aquitaniana prope pagum Savine Carnioliæ.

17. **Xylomites Aristolochiæ** Ettingsh., Beitr. z. Kennt. d. foss. Fl. v. Parschl. in Steierm. Denkschr. k. Ak. Wiss. Wien, XXXVIII Bd. I, Abth. p. 88, t. IV, f. 9. — Maculas circulares nigras, 0,5–1 mm. diam. medio disco minuto pallido notatas formans. 8398

Hab. ad folium Aristolochiæ parschlugianæ Ettingsh. in schisto margaceo tortoniano ad Parschlug Steiermark.

18. **Xylomites maculifer** Heer Fl. tert. Helv. vol I, p. 19, t. I, f. 8, vol. III, pag. 148. — Maculas rotundatas, albas, 1-3 mm. latas formans. 8399

Hab. ad folia Grewiæ crenatæ in marga aquitaniana Hohe Rhonen Helvetiæ et in argilla aquitaniana Bagnasco Pedemontii Italiæ borealis.

19. **Xylomites borealis** Heer Beitr. z. Mioc. Fl. v. Nord-Canada, p. 12, t. II, f. 1. — Peritheciis planis orbiculatis, $1^1/_2$–2 mm. latis, congregatis, disco rimosis. 8400

Hab. ad folia Pterospermitis spectabilis in argilla formationis miocenicæ, Nord-Canada, Amer. bor. — *Xyl. vario* Heer et *Xyl. Liquidambaris* Ettingsh. similis.

20. **Xylomites tuberculum** Fr. Br. ex parte, Flora 1847, Reihe V. Jahrg. vol. I, p. 82, Ung. Gen. et Spec. pag. 39 (falso sub nom. *X. tuberculosus*). 8401

Hab. ad folia Æthophylli in formatione rhætica ad Veitlahm prope Culmbach Jägersburg. — Species hæc a cl. Schenk Foss. Fl. d. Grenzschichten des Keuper u. Lias Frankens p. 7, 8, partim ad *X. Zamitæ* Göpp., partim ad *X. asteriformem* Fr. Br. rejecta est.

21. **Xylomites stigmariæformis** Göpp. Tert. Fl. Ins. Java p. 34, t. IV, f. 27, Göpp. Gatt. foss. Pfl. pag. 109, Göpp. in Bronn's Ind. palæont. II, p. 5, Heer Foss. Pflanz. Sumatra pag. 10, t. III, f. 1. — Perithecio innato rotundo, disco umbilicato integro, medio elevato. 8402

Hab. ad fragmentum folii indeterminati, Fagrææ morindæfoliæ simile, in formatione eocenica ripis rivi Gembong prope pagum Tandjung, Djampang insulæ Java et ad folia Apocynophylli sumatrensis formationis eocenicæ Padang Bovenland insulæ Sumatra.

22. **Xylomites Liquidambaris** Ettingsh. Beitr. z. Kennt. d. foss. Fl. v. Parschl. in Steierm., Denkschr. k. Ak. Wiss. Wien, XXXVIII Bd. I, Abth. p. 86, t. II, f. 3-5, t. III, fig. 7. — Peritheciis rotundatis, immersis, limbo subtumido, nonnumquam pallido circumdatis, 1-2 mm. diam. 8403

Hab. ad folia Liquidambaris europæi Al. Braun in schisto margaceo tortoniano ad Parschlug, Steiermark. Sec. cl. Ettingshausen Rhytismati Ungeri Mesch. (*Xylomites umbilicatus* Ung.) habitu similis.

23. **Xylomites sp.** Boulay Not. s. la Fl. tert. d. env. de Privas, Ardèche Bull. Soc. Bot. de France XXXIV, Paris 1887, pag. 236 (*Xyloma*). 8404

Hab. ad folia Ulmi in tripoli tortoniano Charay prope Privas Ardèche Galliæ austr.

24. **Xylomites ellipticus** Ettingsh. D. Kreidefl. v. Niedersch. in Sachsen Sitz. d. k. k. Ak. d. Wiss. Wien 1867, pag. 243, t. I, f. 7. — Peritheciis ellipticis, 0,5-2 mm. diam., planis, disco centrali vix distinguendo. 8405

Hab. ad folia Fici Geinitzii in schisto argilloso cenomaniano ad Niederschœna prope Freiberg Saxoniæ. — *Xyl. deformem* Ung. in mentem revocat.

25. **Xylomites deformis** Ung. Foss. Fl. v. Sotzka Denkschr. k. Ak. Wien, II Bd., p. 155, t. XXIII, f. 2, Mass. Sop. Piante foss. vic. p. 57, Consp. Fl. tert. p. 10, Syll. pl. foss. p. 18, Mesch et Squin. Fl. tert. ital. p. 7, n. 26. — Perithecio rotundato irregulari plano circ. 1-2 mm. diam., disco centrali vix distinguendo. 8406

Hab. ad folia Fici degeneris Ung. in formatione tongriana ad Sotzka Stiriæ, ad folia varia in calcareo margaceo aquitaniano, Salcedo in agro vicetino Italiæ borealis.

26. **Xylomites ficicola** Ettingsh. Foss. Fl. Leoben, Denk. k. Ak. Wiss. LIV, Bd. I Abth. Wien 1888, pag. 268, tab. I, f. 15. — Maculas 2-6 mm. latas, rotundatas, fuscas, margine pallido latiore cinctas formans. 8407

Hab. ad folia Fici lanceolatæ Heer in argilla miocenica media prope Leoben Steiermark. — Sec. cl. Ettingshausen *X. borea-*

li Heer similis, a quo maculis majoribus, densioribus et prominulis distinguitur.

27. **Xylomites Alni** Ettingsh. Foss. Fl. Bilin, Denkschr. k. Ak. Wiss. 8408
Wien. CLVXVI Bd. I, p. 10, tab. II, f. 3, Schimp. Tr. pal. Vég. III, p. 433, Ettingsh. Beitr. Kennt. Tertiärfl. Steierm. Sitz. k. Ak. Wiss. CL, I Abth., Wien 1863, p. 35, Foss. Fl. v. Leoben Denkschr. ibid., LIV Band, Abth., pag. 268, t. I, f. 14. — Maculas fuscas, 0,5–2,5 mm. diam., rotundatas formans, disco paullo pallidiore.

Hab. ad folia Alni gracilis in argilla plastica mayenciana Priesen prope Bilin, Bohemiæ in argilla miocenica media prope Leoben et Seegraben prope Unter-Buchwieser. — A *Xyl. daphnogene* Heer propter matricis diversitatem tantum distinctus.

28. **Xylomites confluens** Göpp. Ueb. Braunkolenfl. nordöst. Deutschl. 8409
Zeitschr. Deutsch. geol. Gesell. Berlin 1852, pag. 488, Tertiärfl. v. Schossnitz in Schles. pag. 3, t. I, f. 14, 15, Tertiärfl. a. d. Insel Java p. 150. — Epiphyllus, accumulatissimus, rotundus, confluens, haud raro totam folii faciem obtegens, disco parum elevato, maculis 0,5–1 mm. fere diam.

Hab. ad folia Carpini ostryoidis Göpp. et Alni similis Göpp. in argilla tortoniana Schossnitz prope Canth ad Vratislaviam.

29. **Xylomites grandis** Etting. Beitr. Tertiärfl. Steiermarks, Sitzungsb. 8110
k. Ak. Wissen. LX Bd., I Abth. Wien 1869, p. 36, t. I, f. 8, Foss. Fl. Leoben, Denkschr. ibid. LIV Bd., I Abth. p. 269, Wien 1888. — Maculas 3,5-5 mm. latas, fuscas, subrotundas, margine granuloso cinctas formans; disco medio pallido distincto.

Hab. ad folium indeterminatum in argilla miocenica media prope Leoben Steiermark et ad folia Alni gracilis prope Leoben, Steiermark.

30. **Xylomites Lonchitidis** Ettingsh. Beitr. Kennt. Tertiärfl. Steierm. 8411
Sitzungsb. k. Ak. Wiss. CL Bd., I Abth., 1869, p. 35, t. I, f. 10, Foss. Fl. Leoben, Denk. k. Ak. Wiss. LIV, Bd., I Abth. Wien 1888, p. 268. — Maculas minutas rotundatas, 0,5-1 mm. latas, discum pallidum orbicularem includentes, formans.

Hab. ad folia Quercus Lonchitidis in argilla miocenica media prope Leoben Steiermark. — *X. vario* Heer similis.

31. **Xylomites Drymejæ** Ettingsh. Beitr. z. Kennt. d. foss. Fl. v. Par- 8412
schl. in Steierm. Denkschr. k. Ak. Wiss. Wien, XXXVIII Bd. I, Abth, pag. 87, t. III, f. 10. — Peritheciis minutis, 0,5 circ. mm.

diam., planis, rotundatis, tuberculatis, interdum confluentibus, disco rimoso haud umbilicato.

Hab. ad folia Quercus Drymejæ Ung. in schisto margaceo tortoniano ad Parschlug, Steiermark.

32. **Xylomites tuberculatus** Ung. Gen. et Spec. pag. 38. — Perithecio innato oblongo rotundato, disco centrali irregulari rimoso. 8413

Hab. ad folia Quercus lignitum in marga tortoniana ad Parschlug Stiriæ.

33 **Xylomites Quercus-Serræ** Ettingsh. Beitr. z. Kennt. d. Foss. Fl. v. Parsch. in Steierm. l. c, p. 86, t. IV, fig. 4, 7. — Peritheciis orbicularibus, 0,5-1 circ. mm. diam., tuberculatis, immersis, circuitu marginato, disco subrimoso. 8414

Hab. ad folia Quercus Serræ in schisto margaceo tortoniano ad Parschlug Stiriæ.

34. **Xylomites Daphnes** Ettingsh. Beitr. z. Kennt. d. Foss. Fl. v. Parsch. in Steierm. l. c. p. 86, t. III, f. 8, t. IV, f, 5. — Perithecio majusculo circulari 0,5-1 mm. diam., crasso, immerso, disco tuberculato, medio non elevato. 8415

Hab. ad folia Quercus Daphnes Ung. in schisto margaceo tortoniano ad Parschlug Stiriæ. — *Rhytisma Ungeri* Mesch. (*Xylomites umbilicatus* Ung.) propter umbilici elevationem ab hoc tantum distinguitur.

35. **Xylomites varius** Heer Fl. tert. Helv. vol. I, p. 19, t. I, f. 9, *a*, *f*, Ettingsh. Foss. Fl. v. Köflach Jahrb. k. k. geol. Reichsanst. Bd. VIII, p. 9, t. I, f. 4, Denkschr. k. Ak. Wiss. Wien, CLXXVI Bd. I, D. foss. Pfl. Tert.-Beck Bilin pag. 10, t. I, f. 9, Beitr. Kennt. Foss. Pfl. Parschlug l. c. p. 87, Capellini, La form. gess. Castell. maritt. p. 38, Schimp. Tr. pal. Vég, vol. I, p. 138, Mesch. et Squin., Fl. tert. it., p. 7, n. 25. — Perithecio minuto rotundato, circ. 0,5 mm. diam., disco polymorpho, pallido. 8416

Hab. ad folia Populi ovalis, Salicis mediæ et Podocarpi Knorrii in calcareo tortoniano Œningen Helvetiæ; ad folia Dryandroidis lignitum Langangezd pr. Bilin, Bohemiæ; ad folium Sapotaceæ cujusdam in schisto margaceo tortoniano ad Parschlug Steiermark; ad folia Quercus in marga Cerretello Tusciæ, Ital. centr. — Cl. Heer formas sequentes distinguit:

a) **Xylomites varius Populi** Heer loc. cit. t. I, f. 9 *a*.

Hab. ad folia Populi ovalis. — Adsunt in uno ramo folia omnia maculata.

b) **Xylomites varius Salicis** Heer loc. cit., t. I, f. 9, *f*, Beck Olig. 8417

v. Mittweida, Zeitschr. Deut. geol. Ges., XXXIV, p. 753, t. XXXI, fig. 3. -- Maculis depressis, magnitudine æquali, foliorum nervis interpositis centro pallido a margine nigro non bene limitato.

Hab. ad folia Salicis mediæ Al. Br. et Sal. variantis Göpp. in lignite aquitaniana Mittweida Saxoniæ.

c) **Xylomites varius Podocarpii** Heer loc. cit. — Maculis nigris, bene definitis intus pallidioribus, rotundis, magnitudine æquali, duabus tantum margine folii, aliis nervo medio, reliquis inter nervos secundarios insidentibus. 8418

Hab. ad folium Podocarpi Knorrii Al. Br. — Individuum ab Ettingshausen ad Dryandroidem lignitum repertum est proximum formæ *b* Heer.

36. **Xylomites ciliatus** Göpp. tert. Fl. Schossnitz in Schl. p. 3, t. I, f. 16, 17, tert. Fl. a. d. Insel Java p. 150. — Epiphyllus, frequens gregarius, rotundus, planiusculus, discretus, quasi emarginato-ciliatus, medio vix elevatus, maculis 0,5-1 mm. diam. 8419

Hab. ad folia Salicis et Platani in argilla tortoniana Schossnitz prope Canth ad Vratislaviam.

37. **Xylomites maculæformis** Göpp. Ueb. Braunkohlenfl. nordöst. Deutschl. Zeitschr. Deutschen geol. Gesell. Berlin 1852, pag. 488, Tertiärfl. v. Schossnitz in Schles. p. 3, t. I, f. 13, Tertiärfl. a. d. Insel Java p. 150. — Epiphyllus innatus, sparsus, rotundus, planiusculus, disco subelevato, maculæ 0,5-2 circ. mm. diam. 8420

Hab. ad folia Salicis et Quercus in argilla tortoniana Schossnitz prope Canth ad Vratislaviam.

38. **Xylomites Populi** Fr. (*Xyloma*) Goepp. Gen. pl. foss. fasc. 3 et 4, t. XIII, f. 6. 8421

Hab. ad folia fossilia Populi (ubi?).

39. **Xylomites Zamitæ** Göpp. Uebers. d. Arb. u. Ver. 1844, p. 123, Gatt. Foss. Pfl. pag. 109, t. XIII, f. 1, 5, Schenk Foss. Pfl. t. I, Schimp. Tr. pal. Vég. I, pag. 139, t. I, f. 20, Ung. Gen. et Spec. p. 38, Syn. pl. Foss. p. 18, Geinitz Ueb. Rhät. Pflanzen u. Thierr. Argent. Provinzen, Palæontographica, Suppl. III, Cassel 1876, t. II, f. 2. — Perithecio rotundato, circ. 3 mm. diam. regulari, subplano, disco orbiculari subintegro parum distincto. 8422

Hab. ad foliola Zamitis distantis Presl., Otozamitis brevifolii Al. Br. et Sagenopteridis rhoifoliæ Presl. in schisto arenaceo argilloso inter Lias et Keuper ad Bambergam et ad Veitlahm Vindeliciæ, et in schisto arenaceo nigro formationis

rhæticæ aut infraliasicæ ad folia Tæniopteridis, Mareys, Provincia San Juan, Reipublicæ Argentinæ, Amer. austr.

40. **Xylomites intermedius** Nath. Om Fl. Skänes Kolf. Bildningar I, Flora vid Bjuf, Sveriges Geologiska undersökning 1879, Ser. *C*, n. 33, N. Jahrb. f. Min. 1880, I, 2, p. 295-296, Bot. Centralbl. 1880, p. 366-368 Bot. Jahr. VII Jahrg. 1879, p. 147. 8423

Hab. ad folia Podozamitis aut Phœnicopsis in formatione rhætica Bjuf supra Schonen.

41. **Xylomites polaris** Heer Beiträge z. foss. Pfl. Spitzbergens II, Die Jura-Pfl. d. Cap. Boheman, pag. 28, t. VI, f. 16, 17, 17 *b*. — Peritheciis rotundatis, seriatis, 1 mm. latis. 8424

Hab. ad folia Podozamitæ in arenaria barthoniana in Capite Boheman, Spitzberg. Dispositione et magnitudine peritheciorum a *X. Zamitæ* diversus.

42. **Xylomites sp.** Fliche Note Fl. tert. env. Mulhouse Bull. soc. ind. Mulhouse, tome LVI, Mulhouse, 1886, p. 353. 8425

Hab. ad folia Monocotyledoneæ in marga aquitaniana inferiore Riedisheim pr. Mulhouse Alsatiæ. — Diagnosis desideratur.

43. **Xylomites sp.** Gein. Ueb. Rhät. Pfl.-und Thier. Argent. Prov. Palæontographica 1876. 8426

Hab. ad pinnulas Tæniopteridis in formatione rhætica reipublicæ Argentinæ Amer. austr.

44. **Xylomites radiatus** Schimp. Tr. pal. Vég. I, p. 139. — Sinubus magis numerosis et minutis, 8-10 mm. diam. metientibus a *X. asteriformi* Fr. Br. diversus. 8427

Hab. ad corticem Equiseti columnaris in lignite Baden Germaniæ.

45. **Xylomites asteriformis** Fr. Br. Weltrichia t. I, f. 5-7, Schenk Foss. Pfl. t. II, f. 1, 2, Ung. Gen. et Spec. p. 38, Schimp. Tr. pal. Vég. I, p. 139, t, I, f. 21, *Xylomites tuberculum* Fr. Br. (ex parte), *Xyl. radiatus* cum varietatibus Fr. Br. et *Uromycetites concentricus* Fr. Br. D. Foss. Gew. Gränz. Weitl. Flora XXX Jahrg, I Bd. Regensburg 1847, p. 82. — Perithecio juniore orbiculari, peltoideo, in medio umbonato, seniore irregulariter sinuato-marginato, radiatim sulcato, umbonato. 8428

Hab. ad folia Equiseti Münsteri et ad pinnulas Zamitis distantis et brevifolii Fr. Br. in stratis inter lias et keuper Veitlahm prope Culmbach Franconiæ.

46. **Xylomites granulifer** Ettingsh. Beitr. Kennt. Tertiärfl. Steierm. Sitzungsb. k. Ak. Wiss. LX Bd., I Abth., f. 36, t. I, f. 9, Foss. 8429

Fl. Leoben, Denkschr. ibid., LIV Bd., I Abth., p. 269. — Maculas 1,5-4 mm. latas, nigras rotundatas, margine pallescentes, medio granulatas formans.

Hab. ad folium indeterminatum in argilla miocenica media ad Leoben Steiermark.

47. **Xylomites münzenbergensis** Ettingsh. foss. Fl. v. Leoben, Denkschr. K. Ak. Wiss., LIV Bd., I Abth. Wien 1888, p. 268, t. I, fig. 13. — Maculas parvas, 0,5-1,5 mm. latas, rotundatas, fuscas, margine pallidiore cinctas formans, disco pallido indistincto. 8430

Hab. in folio indeterminato in argilla aquitaniana prope Leoben Steiermark.

48. **Xylomites aggregatus** Heer Fl. foss. Arctica, vol. VI, pars II, p. 21, t. XXIX, f. 11. — Peritheciis aggregatis, circularibus, 3 mm. latis margine deplanato, angusto. 8431

Hab. ad corticem formationis cretaceæ superioris, Atanekerdluk Groenlandiæ. — *Rhytismiti Hederæ* Heer simillimus sed margine deplanatiori et angustiori.

49. **Xylomites irregularis** Göpp. Foss. Flor. d. m. Jura p. 142, t. I, f. 12, 17, Ung. Gen. et Spec. pag. 38, Bronn Ind. Palæont. P. I, p. 1376, Giebel. Deutschl. Petref. pag. 18, n. 166, Zigno Fl. Foss. form. Oolithicæ p. 3. — Perithecio rotundato vel oblongo, disco centrali integro impresso-subconcavo. 8432

Hab. in argilla calcarifera ferruminosa formationis oolithicæ inferioris Wilmsdorf Silesiæ.

50. **Xylomites ambiguus** Ettingsh. Beitr. z. Kennt. d. foss. Fl. v. Parschl. in Steierm. Denkschr. k. Ak. Wiss. Wien, XXXVIII Bd. I, Abth. p. 87, t. IV, f. 2, 3. — Peritheciis planis, orbicularibus, leviter immersis, tuberculatis, 0,5-2 circ. mm. diam. 8433

Hab. ad folia plantæ cujusdam dicotyledoneæ in schisto margaceo tortoniano ad Parschlug Steiermark.

51. **Xylomites Saportæ** Wat. Pl. foss. du Bassin de Paris, p. 36, t. XI, f. 4. — Perithecio rotundo et umbonato. 8434

Hab. ad folia.... in «gres» suessoniano lignitibus insidente Bellen, Aisne Galliæ bor.

52. **Xylomites dispersus** Wat. Pl. Foss. du Bassin de Paris, p. 36, t. XI, f. 5. — Perithecio oblongo et umbonato. 8435

Hab. ad folia..... in «grés» suesssoniano lignitibus insidente Bellen, Aisne, Galliæ bor.

53. **Xylomites annularis** Göpp. Tertiärfl. d. Insel Iava, p. 96. 8436

Hab. in formatione aquitaniana Altsattel Bohemiæ. — Loc. cit. nulla adest descriptio.

54. **Xylomites milliarius** Ung. Foss. Fl. Parschlug Göpp. Tertiärflora Insel Java, p. 14. 8437

Hab. in schisto margaceo tortoniano Parschlug, Steiermark.

55. **Xylomites sp.** Kusta Ueb. foss. Fl. Rakonitzer Steinkohlenb. Sitz. k. böhm. Gesell. Wiss, Prag Jahrg. 1883, Prag 1884, p. 170. 8438

Hab. in formatione carbonifera ad Lubna Lubnaer (Nyraner) Schichten prope Rakonitz Bohemiæ. — Loc. cit. nulla adest descriptio.

56. **Xylomites sp.** Klüpf. Tertiärfl. Schwab. Alb. Verein Vaterl. naturk. Württemberg 21st. Jahrg. Stuttgart, 1866, p. 156. 8439

Hab. in formatione tertiaria Schwab Bavariæ?

HIMANTITES Bull. (*Himantia*), Deb. et Ett. D. Urw. Thalloph. d. Kreideg. v. Aachen u. Maestricht Denksch d. k. Ak. d. Wiss. XVI, Band p. 212. — Mycelium thelephoroideum, foliicolum, resupinatum, effusum, subtus fibrillosum, ambitu byssino.

1. **Himantites alopecurus** Deb. et Ett. loc. cit. p. 212, t. III, f. 1, *a*. — Hymenio simplici, plumoso, flexuoso, circ. 16 mm. longo, 2,5 mm. crass., caudiculæ formam adæquante. 8440

Hab. ad folia generis Dryophylli in arenaceo argilloso formationis «Aachener Sand» dictæ sepultis.

NYCTOMYCES Hartig in Ung. Chlor prot. p. 3. — Flocci simplices vel ramosi, continui vel septati, nec non in articulos (sporas quodammodo fixas referentes) abeuntes.

1. **Nyctomyces antediluvianus** Ung. Chlor. prot. p. 1, t. III, f. 3, *a*, *b*, Schimper Tr. Pal. Vég. vol. 1 p. 130, Ung. Gen. et Spec. p. 39. — Floccis elongatis, subramosis, septatis, articulis brevissimis fuscis, 15 μ. long. 8441

Hab. ad lignum fossile Mohlitis parenchymatosi in formatione tortoniana Gleichenberg Stiriæ. — Species *Nyctomyceti toruloidi* simillima.

2. **Nyctomyces entoxylinus** Ung. Chlor. prot. p. 8, tab. I, f. 7, Schimp. Tr. Pal. Vég. vol. I, p. 131, Ung. Gen. et Spec. pag. 39. — Floccis continuis, elongatis, ramosis, flexuosis, crassitie floccorum 3 μ. 8442

Hab. in vasis porosis ligni silicificati Nicoliæ ægyptiacæ deserti Wadi Asserak, Ægypti superioris.

3. **Nyctomyces densus** Göpp. et Menge, Ueb. d. Bernsteinflora Mo- 8443
natsbericht d. k. Akad., Berlin 1853, p. 453.

Hab. in formatione succini in Borussia. — Diagnosis desideratur.

4. **Nyctomyces divaricatus** Göpp. et Meng. Ueb. d. Bernsteinflora, 8444
Monatsbericht d. k. Akad., Berlin 1853, pag. 452. — Filamentosus, hyphis intra cellulas et vasa lignorum repentibus, omnino ut forma in ligno Pini silvestris descripta a cl. Hartig (Th. Hartig Abhandlung über die Verwandlung der polykotyledonischen Pflanzenzellen in Pilze und Schwammgebilde, Berlin 1833, t. I, fol. 20).

Hab. in fragmento Pinitis Mengeani intra succinum incluso in Borussia.

5. **Nyctomyces toruloides** Ung. Chloris protogæa, p. 6. 8445

6. **Nyctomyces violaceus** Ung. Chl. prot. t, I, f. 5, Schimp. Tr. pal. 8446
Vég. t. I, f. 7, 7 *a*.

RHIZOMORPHITES Roth in Uster. Ann. I, t. I, et Catal. bot. I, p. 233. (*Rhizomorpha*).

1. **Rhizomorphites geanthracis** Göpp. in Bronn. Gesch. der Nat. p. 5 8447
Ung. Gen. et Spec. pag. 40.

Hab. intra corticem Betulitis? formationis geanthracis ad Muskau Silesiæ.

2. **Rhizomorphites intertextus** (Sternb.) Trevis in mns. edit. II, No- 8448
menel. Algarum, Zigno Fl. Foss. form. Oolithicæ, vol. I, Padova 1856, p. 2, *Algacites intertextus* Sternb. Vers. Fl. Vorw. II, p. 37, t. XXI, fig. 6, Ung. Gen. et Spec. pag. 38, Bronn. Ind. Palæont. Pars I, p. 25, Giebel Deutschl. Petref. p. 15, n. 137. — Filamentis ramosissimis, longitudinaliter striatis; primariis latioribus subparallelis, 1,5 mm. diam., metientibus; ramulis linearibus, planis intertextis, irregulariter reticulato-anastomosantibus.

Hab. in schisto jurassico ad Solenhofen?, Bavariæ. — *Rh. subcorticali* Pers. similis.

3. **Rhizomorphites Sigillariæ** Lesq. A Spec. of Fungus in the Shal. 8449
of the Darlington Coal Bed at Cannelt. Proc. Am. Phil. Soc. vol. XVII, 1877, p. 174, t. IV, f. 9 (*Rhizomorpha*). — Filamentis applanatis, irregularibus, rotundis vel polygoniis, elongatis vel linearibus vel amorphis; ramis divergentibus, modo simplicibus, modo furcatis vel anastomosantibus, apicibus inflatis, clavatis et obtusis vel compressione applanatis, superficie venis venulisque exaratis.

Hab. ad corticem Sigillariæ sp. in fodina carbonifera Cannelton, Beaver County Amer. bor. — Rami 0,5-2 mm. lati, 1-18

circ. mm. longi. *Rh. subcorticali* Pers. maxime proximus. Cfr. J. F. James Remarks on a supposed fossil Fungus from the Coal Measures (Journal Cincinnati Soc. Nat. Hist. 1855, p. 157) et etiam L. Lesquereux, Description of the Coal Flora of the Carboniferous formation in Pennsylvania and throughout the United States 1879–1884.

4. **Rhizomorphites fossilis** Göpp. Unger Synop. pl. Foss. p. 19 (*Rhizomorpha*). 8450

SCLEROTITES Tode F. Meckl. I, p. 2 (*Sclerotium*). — Auctores sæpius in hoc gen. fossili perithecia describunt, sed revera in typico *Sclerotio* tantum mycelium concretum stromaticum occurrit.

1. **Sclerotites acericola** Heer Fl. tert. Helv. vol, III, p. 149, t. CXLII, f. 13. Schimp. Tr. Pal. Vég. vol. I, p. 141 (*Sclerotium*). — Peritheciis sparsis minimis subangulatis. 8451

   Hab. ad folia Aceris trilobati in calcareo albo tortoniano Locle Helvetiæ.

2. **Sclerotites minutulus** Heer Fl. tert. Helv. vol. I, p. 21, tab. II, fig. 11, vol. III, pag. 149, tab. CXXI, f. 26, 60, t. CXLII, f. 12, Schimp. Tr. Pal. Vég. vol. I, pag. 141 (*Sclerotium*). — Peritheciis illis Sclerotii populicolæ minus regularibus minusque distincte limitatis, deplanatis. 8452

   Hab. ad folia Celastri cassinæfolii et Murchisoni Heer et Rhois Pyrrhæ Ung. in calcareo tortoniano Œningen et Locle Helvetiæ. — *Scl. Pustulæ* Dec. similis.

3. **Sclerotites? sp.** De la Harpe Quelq. mots s. la Fl. tert. de l'Angleterre, Bull. soc. vaud. Sc. nat. tome V, Lausanne 1856, pag. 133 (*Sclerotium*). — Maculis rotundatis, nervis secundariis insidentibus. 8453

   Hab. ad folia Lauri? in argilla arenacea flavidula formationis eocenicæ mediæ Bournemouth, Hampshire Angliæ.

4. **Sclerotites angulatus** Sap. Ét. Vég. Sud-est France Ann. Sc. nat. 5me ser., Bot. tome IX, 1868, p. 18, t. 1, f. 7 (*Sclerotium*). — Peritheciis hypophyllis, subtrapeziformibus, minutis, duris, prominulis, sparsis, sæpe seriatis confluentibusque. 8454

   Hab. ad paginam inferiorem foliorum Cinhamomi polymorphi in argilla helvetiana «bassin de Marseille» Galliæ. — *Scl. minutulo* et *acericolæ* Heer simillimus, propter matricis diversitatem tantum distinctus.

5. **Sclerotites Cinnamomi** Heer Foss. Fl. Bovey Tracey t. XVI, f. 17, 19 (*Sclerotium*), Nachtr. z. Mioc. Fl. Groenlands, p. 12, t. I, f. 2, Mioc. 8455

balt. Fl. p. 52, t. XII, fig. 21, 22, Tert. Fl. v. Groenland. p. 47, Schimp. Tr. Pal. Vég. vol. I, p. 141, Ettingsh. Foss. Fl. Leoben Denk. k. Ak. Wiss. LIV Bd., I Abth., Wien 1883, pag. 270. — Perithecio orbiculato, 1-1,5 mm. diam. duro, plano, margine elevato.

Hab. ad folia Cinnamomi Rossmaessleri et Andromedæ in lignite aquitaniana Bovey Tracey, Devonshire, Brit. austr., Ifsorisok Groenlandiæ; ad folia Cinn. polymorphi in argilla miocenica media Moskenberg prope Leoben Steiermark. — *Scl. Pustulæ* similis.

6. **Sclerotites pustulifer** Heer Fl. tert. Helv. vol. I, pag. 21, tab. II, f. 12, Ettingsh. Beitr. z. Kennt. d. Foss. Fl. v. Parschlug Denks chr. k. Ak. Wiss. Wien, XXXVIII Bd. I, Abth. p. 89, t. VI, f. 6. Lesquer. tert. Flora, Report U. St. Geol. Survey. vol. VII, Washington, 1878, p. 35, Schimp. Tr. Pal. Vég. vol. I, p. 141, t. I. fig. 1 (*Sclerotium*). — Stromate duro, convexo, rotundato, 1-1½ mm. diam. metiente, perithecio patelliformi. 8456

Hab. ad folia Quercus commutatæ, in calcareo tortoniano Œningen Helvetiæ, et ad folium coriaceum dicotyledoneæ cujusdam (Quercus?) in schisto margaceo tortoniano ad Parschlug Steiermark. Köflach prope Leoben, Steiermark, ad folia Cyperi sp. Golden Colorado.

7. **Sclerotites Dryadum** Heer Mioc. Fl. v. Island, pag. 140, t. XXV, f. 9 *a* (*Sclerotium*). — Sporangiis minimis, punctiformibus, nigris, rotundatis, deplanatis, folium Betulæ priscæ omnino obtegentibus. 8457

Hab. in topho arenaceo aquitaniano Husavik Islandiæ.

8. **Sclerotites populicola** Heer Fl. tert. Helv. vol. I, p. 20, t. II, f. 10, vol. III, p. 149, t. CXLII, f. 10, 11, 22 (*Sclerotium*), Ludw. Palæontographica vol. VIII, p. 56, Ettingsh. D. foss Fl. d. ält. Braunkohlenf. d. Wett. Sitz. d. k. k. Akad. d. Wiss. 1868, pag. 814, Heer Nacht. z. Mioc. Fl. Grönl. pag. 16, t. II, f. 20, Tert. Fl. v. Groenland p. 48, Schimp. Tr. pal. Vég. vol. I, p. 141. — Perithecio orbiculato punctiformi minimo vix ¼-1/10 mm. lato, nigro. 8458

Hab. ad folia Populi mutabilis, Salicis Lavateri et angustæ et Aceris trilobati, in calcareo tortoniano Œningen, Helvstia et in lignitibus aquitanianus Salzhausen, Hassiæ Darmst. Germ, centr., in calcareo tortoniano Locle, Helvetiæ, Steinheim prope Hanau et ad folia Populi arcticæ Sinigfik insulæ Disco, Groenlandiæ, ad folia Betulæ in Islandia. — *Scl. populino* valde similis.

9. **Sclerotites Salisburiæ** Mass. Lett. a Scarab. p. 9, n. 8 (*Sclerotium*), Synops. Fl. foss. Senog. pag. 5, Fl. foss. Senig. t. I, f. 1 *a*, 1 *b*. Mesch. et Squin. Fl. tert. it., p. 8, n. 30. — Peritheciis hypophlæodicis, ellipticis, utrinque acuminatis, attenuatis, erumpentibus 1-2,5 mm. longis, circ. 0,25 mm. medio latis. 8459

Hab. ad folia Salisburiæ adiantifoliæ Ung. in marga gypsacea tortoniana Senogallia in agro umbro Italiæ centralis.

10. **Sclerotites rubellus** Lesquer. Contrib. to the foss. Fl. of the West. Terr. Pars II, The tert. Fl. p. 35, t. I, f. 2, 2 *f* (*Sclerotium*). — Peritheciis ovalibus seu oblongis, rubris, primo convexis deinceps concavis seu canaliculatis; sporis rubris. 8460

Hab. ad folia Flabellariæ Zinkeni Heer Golden Colorado, Amer. bor. in formatione cretacea superiori.

11. **Sclerotites seminiformis** Göpp. et Meng. in Göpp. Ueb. d. Bernsteinfl. Monatsbericht k. Akad. Berlin 1853, p. 453 (*Sclerotium*). — Peritheciis fere rotundatis, magnis, ostiolo non manifesto. 8461

Hab. in succino Borussiæ. — Species *Sclerot. semini* Tode valde similis. — Diagnosis desideratur.

12. **Sclerotites antiquus** Ettingsh. et Gard. Report on Phyto-Pal. Invest. of the foss. Fl. of Alum Bay Proc. Roy, Soc. London vol. XXX, 1880, p. 231 (*Sclerotium*). 8462

Hab. in argilla alba formationis eocenicæ mediæ Alum Bay insulæ Wight Britanniæ austr. — Loc. cit. nulla adest descriptio.

13. **Sclerotites sp.** Geinitz Char. d. Schich. u. Petref. sächsisch-böhmischen Kreidegeb. III Hft, 1842, p. 99, t. XXIV, f. 1-3, Ung. Gen. et Spec. p. 40 (*Sclerotium*). 8463

Hab. in arenaceo constructionum ad Nieder-Schœna Saxoniæ.

ENTOMOCECIDIA

PHYLLERITES Fr. Obs. myc. I, p. 217 (*Phyllerium*).

1. **Phyllerites Palæo-Cassiæ** Ettingsh. Foss. Fl. v. Leoben Denkschr. k. Ak. Wiss. Wien 1888, LIV Bd., I Abth. p. 265, t. I, f. 2. — Maculas formans, minimas circ. 0,10-0,20 mm. diam., rotundatas circumscriptas, nigras, planas. 8464

Hab. ad folia Cassiæ Phaseolitis in argilla miocenica media prope Leoben, Steiermark. — A *Ph. Palæo-Lauri* propter peritheciorum exiguitatem et matricis diversitatem distinctus.

2. **Phyllerites Friesii** (Al. Br.) Heer Fl. tert. Helv. vol. I, p. 14, t. II, 8465

f. 3, Ludw. Palæontographica, v. VIII, p. 53, t. VIII, f. 4, 4 *a*, Schimp. Tr. pal. Vég. vol. I, p. 130, Ettingsh. Die Foss. Fl. alt. Brankohleunform. Sitzungsb. d. k. k. Ak. d. Wiss. 1868, p. 812, Die Foss. Fl. v. Bilin, Denkschr. k. Ak. Wien, XXVI Bd., p. 52, t. I, f. 14, *Erineum Friesii* A. Braun in Stizenb. Verz. p. 72, Ettingsh. Foss. Fl. Schoenegg, Denkschr. k. Ak. Wiss. Wien, LVII Bd., p. 5. — Maculas fuscas vel nigras, planas efformans.

Hab. ad folia Aceris tricuspidati, in calcareo tortoniano Œningen, Helvetiæ, in argilla aquitaniana prope Leoben, Steiermark, in argilla plastica, mayenciana, Priesen prope Bilin, Bohemiæ, in argilla subflava Johanni Stollen pr. Wies Steiermark. — *Ph. acerino* affinis; a *Ph. Kunzei* maculis planis verrucis convexis hypophyllis destitutis, pallide marginatis, distinctus.

3. **Phyllerites Kunzei** (Al. Br.) Heer Fl. ter. Helv. I, p. 14, t. II, f. 4, 8466
Schimp. Tr. pal. Vég. I, pag. 129, Ettingsh. foss. Fl. v. Leoben, Denkschr. k. Ak. Wiss. LIV, p. 265, Engelh. Tertiärfl. Jesuitengrab in Nordböhmen Nova Acta Acad. Leop.-Carol. Germ. nat. curios. XLVIII, n. 3, p. 309, t. VIII, f. 2, 3 Tertiärpfl. Leitm. Mittelg. Nova Acta Acad. Leop.-Carol. XXXVIII, n. 4, p. 367, t. XVIII, f. 13, *Erineum Kunzei* Al. Braun, in Stizenb. Verz. p. 72, *Erineum protogœum* Al. Br. in Bruckm. Verz. pag. 225. — Maculas formans nigras, immersas.

Hab. ad folia Aceris tricuspidati, Œningen Helvetiæ, ad folia Aceris trilobati in argilla miocenica media, prope Leoben, Steiermark, et in schisto bituminoso aquitaniano, Jesuitengrabens prope Kundratitz Bohemiæ septentrionalis; in topho basaltico aquitaniano Holaikluk, Leitmeritz Bohemiæ bor.

4. **Phyllerites inquinans** Sap. Der. adjunct. à la Fl. foss. d'Aix en 8467
Provence, Ann. Sc. nat., Botanique, 1883, p. 4, t. I, f. 1. — Maculas formans minutas, 0,30-1 circ. mm. diam. fuscas, planas, ambitu irregulares, per totam superficiem folii sparsas.

Hab. ad folia Styracis? in calcareo liguriano Aix, Narbonne Galliæ.

5. **Phyllerites Crocoxyli** Engelh. ibid. pag. 309, t. XXII, f. 34. — 8468
Maculis suborbicularibus, nigris circ. 0,5-1 mm. diam., immersis, margine laciniatis, ad marginem aut super nervos folii insidentibus.

Hab. ad folia Elæodendri bohemici Engelh. in schisto bituminoso aquitaniano, Jesuitengrabens prope Kundratitz Bohemiæ borealis.

6. **Phyllerites Palæo-Lauri** Ettingsh. Foss. Fl. v. Leoben ibid. p. 264. 8469

t. I, f. 4. — Maculas formans planas circumscriptas, nigrescentes, parvas, planas, 0,5-1 circ. mm. diam.

Hab. ad folia Lauri in argilla miocenica media ad Leoben, Steiermark.

7. **Phyllerites Palæo-Myricæ** Ettingsh. Foss. Fl. v. Leoben ibid. p. 264, tab. I, fig. 1. — Maculas formans rotundatas, nigrescentes, 1,5-4 mm. diam. planas. 8470

Hab. ad folia Myricæ lignitum in argilla miocenica media prope Leoben in Steiermark. — A *Ph. ficicola* Ett. propter maculas planas et irregulariter marginatas distinctus.

8. **Phyllerites lignitum** Ettingsh. Beitr. z. Kennt. d. Foss. Fl. v. Parschl. in Steierm. Denkschr. k. Ak. Wiss. Wien, XXXVIII Bd. I, Abth. pag. 82, t. I, f. 1,2. — Maculas formans fuscas, immersas, suborbiculares. 8471

Hab. in schisto margaceo tortoniano ad Parschlug, ad folia Myricæ lignitum. — A *Ph. Kunzei* (A. Braun) Heer propter matricem et macularum regularitatem distinctus.

9. **Phyllerites Callicomæ** Engelh. Tertiärfl. Jesuitengrab. in Nordböhmen, Nova Acta Acad. Leop.-Carol. vol. XLVIII, n. 3, Halle 1885, p. 309, t. VIII, f. 13. — Maculis parvis, 1 circ. mm. diam. orbicularibus, nigris, immersis. 8472

Hab. ad folia Callicomæ in schisto bituminoso aquitaniano, Jesuitengrabens prope Kundratitz Bohemiæ borealis.

10. **Phyllerites sp.** A. W. Stiehler in Debey und Ettingsh. D. Urw. Thalloph. d. Kreideg. v. Aachen. u. Maestricht, Denksch. k. Ak. Wiss. XVI Band, p. 214 (*Erineum*). 8473

Hab. ad folia Credneriæ acuminatæ Hampe in arenaceo argilloso aquisgranensi.

11. **Phyllerites Palæo-Carpini** Ettingsh. Foss. Fl. v. Leoben Denksch. k. Ak. Wiss. LIV, Bd., I Abth., Wien 1888, p. 264, t. I, f. 3. — Maculas formans irregulariter rotundatas nigrescentes, medio nonnunquam pallidiores, planas, 1-3,5 mm. diam. 8474

Hab. ad folia Carpini Heerii in argilla miocenica media prope Leoben Steiermark. — A *Ph. Palæo-Myricæ* Ettingsh. propter irregularitatem macularum et matricis diversitatem tantum distinctus.

12. **Phyllerites parschlugianus** Ettingsh. Beitr. z. Kennt. d. Foss. Fl. v. Parschl. in Steierm. Denkschr. k. Ak. Wiss. Wien, XXXVIII Bd. I, Abth. p. 83, t. I, f. 9. — Maculas formans nigras, immersas, subconcavas, rotundatas. 8475

Hab. in schisto margaceo tortoniano ad Parschlug, Steiermark ad foliola Juglandis parschlugianæ. — A *Ph. lignitum* Ett. propter macularum concavitatem distinctus.

13. **Phyllerites ficicola** Ettinsgh. Die Foss. Fl. d. Tert.-Beck. von Bilin Denkschr. k. Ak. Wien, XXVI Bd., p. 6, t. I, f. 19. — Maculas formans fuscas vel nigras, subimmersas, 3 mm. latas. 8476

Hab. ad folia Fici multinervis Heer in argilla mayenciana Priesen prope Bilin Bohemiæ. — *Ph. acerino* Fries proximus.

14. **Phyllerites sp.** Goepp. Tert. Fl. v. Schossnitz in Schlesien p. 1, t. I, f. 19, Tertiärfl. a. d. Insel Java p. 150 (*Erineum*). 8477

Hab. ad folia Alni similis et Platani in argilla tortoniana Schossnitz prope Canth ad Vratislaviam. — *E. betulino* similis.

15. **Phyllerites priscus** Ettingsh. Foss. Fl. v. Schoenegg Denkschr. k. Ak. Wiss. Wien, LVII Bd., p. 5, t. I, f. 12. — Maculas formans rotundato-ellipticas, 0,5-1,5 mm. diam., nigrescentes, planas. 8478

Hab. in argilla subflava miocenica Johanni-Stollen et Neu-Josephi-Tagbau prope Wies Steiermark ad folia Alni gracilis Ung. — A *Ph. Palæo-Lauri* Ettingsh. propter matricis diversitatem tantum distinctus sec. cl. Ettingshausen.

GYROMYCES Göpp.

1. **Gyromyces Ammonis** Göpp. in Germar. Steinkohl. v. Wettin p. 111, t. XXXIX, Geinitz Steinkohl. v. Sachsen, pag. 3, t. XXXV, Lesquereux Palæontol. of Illinois, p. 462, tab. XXXIII, Schimp. Tr. pal. Vég. I, p. 144, t. I, f. 15 *a*. — Stirps vere anceps, initio ut fungus habita, dein, observantibus palæontologis americanis (Dawson etc.) ad Conchas relata, invito cl. Lesquereux, qui ad mycetes spectare contendebat. Nuperrime vero iterum inter animalia relegatur sub nomine *Spirorbis carbonarii*. 8479

REPERTORIUM

FUNGORUM IN VOL. IX ET X DESCRIPTORUM *)

SECUNDUM MATRICES (VEGETABILIA ET ANIMALIA)

Obs. C. indicat: *Coryneliaceas.* — D. *Discomyceteas.* — De. *Dematiaceas.* — Do. *Dothideaceas.* — E. *Excipulaceas.* — H. *Hypocreaceas.* — He. *Hemihysteriaceas.* — Hy. *Hysteriaceas.* — L. *Lophiostomaceas.* — La. *Laboulbeniaceas.* — Le. *Leptostromaceas.* — M. *Mucedinaceas.* — Me. *Melanconiaceas.* — Mi. *Microthyriaceas.* — My. *Myxomyceteas.* — N. *Nectrioideas.* — O. *Onygenaceas.* — P. *Perisporiaceas.* — Ph. *Phycomyceteas.* — Pm. *Phymatosphœriaceas.* — Sa. *Sphœriaceas allantosporas.* — S. d. *Sphœriaceas dictyosporas.* — S. h. *Sphœriaceas hyalosporas.* — S. hd. *Sphœriaceas hyalodidymas.* — S. hp. *Sphœriaceas hyalophragmias.* — S. p. *Sphœriaceas phœosporas.* — S. pd. *Sphœriaceas phœodidymas.* — S. pp. *Sphœriaceas phœophragmias.* — S. s. *Sphœriaccas scolecosporas.* — Sp. *Sphœrioideas.* — St. *Stilbaceas.* — T. *Tubercalariaceas.* — U. *Uredinaceas.* — Us. *Ustilaginaceas.*

Abies. — U. 1304, 1311, 1357. — P. 1681, 1794. — S. h. 2409. — S. hd. 2657, 2658. — S. pp. 3352. — S. hp. 3493. — H. 3917, 3966. — M. 4200. — L. 4311. — Hy. 4380, 4438, 4439. — D. 4519, 4641, 4690, 4715, 4718, 4750. — My. 4821, 4822, 4825, 4834, 4854. — Sp. 5234, 5235, 5238, 5239, 5241, 5242, 5553, 5596, 5636, 5637, 5688, 5893, 6101*, 6211, 6463, 6521. — Me. 6953, 6954, 6955, 6981, 7040, 7044, 7133, 7169. — De 7370, 7429, 7451, 7457. — St. 7934. — T. 7989, 8126.

Abutilon. — De. 7850.

Acacia. — U. 1203, 1204, 1315, 1316, 1370. — S. h. 2400, 2451, — S. hd. 2918. — S. d. 3554. — S. s. 3711. — H. 3857. — Hy. 4400. — My. 4796. — Sp. 4886, 5090, 5489, 5829, 5830, 6244, 6245, 6501. — Me 6884.

Acæna. — S. hd. 2532.

Acalypha. — De. 7570.

Acanthaceæ. — Mi. 4224.

Acanthus. — S. pp. 3128. — Sp. 6399.

Acarospora. — S. pd. 3020.

Acer. — S. a. 1862, 1942, 1948. — S. p. 1994, 2005, 2069, 2118. — S. h. 2316, 2317, 2361. — S. hd. 2566, 2736, 2768,

*) Exclusi sunt fungi fossiles.

2769, 2867, 2868, 2869, 2895, 2915. — S. ph. 3027, 3068. — S. pp. 3101, 3292, 3341, 3343. — S. hp. 3385, 3491. — S. d. 3644, 3658. — H. 3862. — D. 4506, 4507, 4517, 4611, 4639, 4723, 4746. — Sp. 4904, 4905, 4906, 4907, 5166, 5167, 5443, 5464, 5465, 5703, 5741, 5843, 5844, 5938, 5946, 6029, 6062, 6201, 6202, 6263, 6504. — N. 6549, 6556. — Le 6572, 6573. — E. 6661, 6669, 6673, 6700, 6701, 6712. — Me. 6754, 6755, 6984*, 6997, 7036, 7043*. — M. 7163, 7251. — De 7335, 7372, 7398, 7462, 7517, 7538. — De. 7862. — T. 8146.

Acetabula. — 7234.

Achatocarpus. — Le. 6630. — Me. 6808.

Achillea. — S. h. 2331. — Sp. 6488.

Achyranthes. — Sp. 6514.

Acnida. — De. 7662.

Aconitum. — S. pp. 3118. — L. 4279. — D. 4512. — Sp. 6104.

Acorus. — S. pp. 3214. — S. hp. 3426. — S. d. 3572. — Sp. 5362.

Acridium. — M. 7061, 7188.

Actinella. — U. 1254.

Actinomeris. — De. 7621. — T. 8102.

Adathoda. — S. pp. 3128. — Sp. 6112,

Adenostyles. — Hy. 4443. — D. 4511.

Adiantum. — Hy. 4373.

Ædidium. — De. 7858. — T. 8013, 8014.

Ægle. — Sp. 5444.

Ægopodium. — Sp. 6020.

Æsculus. — S. h. 2315, 2362. — S. pd. 3045. — H. 3870. — S. hd. 2900, 2901. — L. 4320. — D. 4552, 4768. — Sp. 4896, 4897, 5117, 5118, 5119, 5120, 5190, 5810, 5856, 5857, 5935, 6037, 6261. — E. 6705, *6717. — Me. 6927, 6966, 7030. — M. 7225. — De. 7839.

Agaricineæ. — Ph. 1414. — M. 7102.

Agaricus. — H. 3800, 3841. — M. 7130, 7217, 7235. — T. 8096.

Agave. — S. hd. 2866. — S. pd. 3007. — D. 4622. — De. 7341.

Agrimonia. — S. h. 2314. — Sp. 6312.

Agropyrum. — S. hp. 3438. — Sp. 6010, 6130, 6442.

Agrostemma. — D. 4728.

Agrostis. — U. 1301. — S. hd. 2712. — S. pp. 3246. — Sp. 6170, 6436. — Le. 6614, 6656. — De. 7754, 7763.

Agrotis. — Ph. 1484. — M. 7051.

Ailantus. — P. 1554. — S. a. 1910. — S. h. 2316. — S. pp. 3187, 3188. — S. d. 3696, 5424, 5819, 5870, 6095. — M. 7076.

Aira. — Us. 1185. — S. pp. 3224, 3247.

Albizzia. — Do. 4169. — Sp. 5081, 5089.

Alcea. — S. hd. 2510.

Alchemilla. — S. hd. 2776. — M. 7201.

Algæ. — Ph. 1507. — S. p. 2062. — S. s. 3764.

Alhagi. — P. 1575.

Alisma. — S. pp. 3211. — Sp. 6005. — M. 7205, 7301. — De. 7743.

Allium. — U. 1273. — Sp. 5614, 6420. — De. 7852.

Alnus. — Ph. 1428. — S. a. 1855, 1863, 1885, 1957, 1968, 1969. — S. p. 2050, 2127, 2110. — S. h. 2310, 2472. — S. hd. 2647, 2648, 2772, 2880, 2881. — S. pd. 3074, 3089. — S. hp. 3397, 3422, 3546. — H. 3850, 3851. — Do. 4129. — D. 4726, 4733, 4748, 4767, 4768, 4769, 4773. — O. 4779. — Sp. 4961, 5718, 5772, 6028, 6059*. — Me. 6832*, 6862, 6875, 6976. — De. 7388, 7529, 7815. — St. 7900. — T. 8147.

Alocasia. — Sp. 5415.

Aloë. — E. 6704.

Alopecurus. — U. 1221. — Ph. 1434. — E. 6707. — De. 7474.

Aloysia. — S. hd. 2575. — Sp. 5186.

Alpinia. — Do. 4083.

Alsine. — C. hd. 2528. — Sp. 6108.

Alsodeia. — Mi. 4226.

Alsophila. — P. 1690.

Alternanthera. — De. 7664.

Althæa. — Sp. 5034, 5291, 5292, 5976, 5977, 6325, 6326, 6473. — Me. 6848. — De. 7478*.

Alyxia. — S. hd. 2556.

Amaranthus. — Sp. 5059, 6050. — De. 7665.
Amaryllis. — De. 7739.
Ambrosia. — S. a. 1973. — S. hd. 2724. — Sp. 6367. — M. 7177.
Amelanchier. — U. 1293. — P. 1706. — S. hd. 2902, 2903. — S. pd. 3073. — S. d. 3666. — Do. 4144. — L. 4276. — Sp. 5111, 5462, 5651, 6074. — M. 7098.
Ammophila. — S. p. 2102, 3015. — D. 4675. — Sp. 5736, 5922, 6024, 6025, 6057, 6128, 6224. — Me. 6992. — De. 7523.
Amomum. — P. 1587.
Amorpha. — U. 1367.
Ampelodesmos. — T. 8088.
Ampelopsis. — S. h. 2476. — S. hd. 2935. — Sp. 5646, 5811, 5855. — Me. 6983.
Amsonia. — U. 1379.
Amygdaleæ. — P. 1596.
Amygdalus. — P. 1578. — S. d. 3660. — H. 3847. — Sp. 5101, 5578, 5649. — M. 7110.
Anacardiaceæ. — Sp. 4982.
Anagallis. — Sp. 6386.
Anagyris. — S. hd. 2925.
Anamirta. — S. pp. 3178.
Ananassa. — De 7456.
Andrachne. — U. 1229.
Andromeda. — P. 1680, 1736, 1807. — S. hd. 2612, 2852. — S. pp. 3192, 3704. — S. s. 3770. — Sp. 5151.
Andropogon. — Us. 1168, 1170, 1189, 1191, 1192. — S. p. 2121. — S. pd. 3012. — S. pp. 3241. — S. s. 3759. — H. 3876. — Do. 4093, 4095. — L. 4324. — Sp. 5824. — M. 7164. — De. 7453. — T. 8091.
Androsace. — S. hd. 2727. — Sp. 6387. — Me. 7032.
Anemone. — U. 1232, 1233. — S. d. 3605. — Sp. 6153, 6509. — De. 7452.
Angelica. — S. hd. 2530, 2720, 2721. — D. 4529. — N. 6558. — De. 7465.
Anguillula. — Ph. 1463, 1465, 1520, 1523.
Anomatheca. — U. 1216.
Anona. — Hy. 4422. — Le. 6649. — Me. 6937.
Anonaceæ. — Do. 4178.
Anser. — Sp. 5396.
Antennaria. — P. 1809. — Sp. 5029, 6469.
Anthistiria. — U. 1260.
Anthomya. — Ph. 1493.
Anthriscus. — Sp. 5329.
Anthurium. — Me. 6818.
Anthyllis. — Sp. 6303.
Antigonum. — De. 7344.
Antirrhinum. — Sp. 5519, 5970, 6046.
Aphis. — Ph. 1471, 1472, 1482, 1483. — M. 7062, 7219.
Apiocystus. — Ph. 1513.
Apium. — Sp. 6331, 6522. — M. 7268.
Apluda. — U. 1395.
Apocyneæ. — P. 1765. — Do. 4115, 4118. — S. h. 2339. — Sp. 5050. — Me. 6857, 7021.
Apollonia. — S. hd. 2770.
Aquilegia. — S. hp. 3362. — Sp. 5252, 6297, 6298. — De. 7572.
Arabis. — U. 1234, 1284. — S. hd. 2488. — S. hp. 3379, 3446. — S. d. 3624. — Sp. 6103, 6301.
Aralia. — S. h. 2465. — S. hd. 2603. — Hy. 4445. — Sp. 4892, 5197, 5420. Me. 6853. — M. 7254. — De. 7344, 7700.
Aranea. — H. 3989. — M. 7149. — St. 7923.
Araucaria. — S. pp. 3171. — S. s. 3779. — Sp. 5243. — Me. 6784.
Arbutus. — S. a. 1881. — S. p. 2056. — S. h. 2312. — S. hd. 2615. — Sp. 4950, 5150, 5448, 6282, 6283,. — Me. 6913, 6975.
Arcella. — Ph. 1525.
Archangelica. — S. h. 2383, 6328, 6469. — De. 7330.
Arctagrostis. — S. d. 3573.
Arctium. — Sp. 5992.
Arctostaphylos. — S. hd. 2831. — Sp. 5795. — Me. 6913. — T. 8145.

Ardisia. — P. 1828.
Arenaria. — S. hd. 2525, 2527, 2841.
Argemone. — Me. 6790. — De. 7866.
Aries. — Sp. 5397.
Arisarum. — Sp. 5074.
Aristolochia. — S. hd. 2542. — Sp. 6404. — De. 7658.
Aristotelia. — S. hd. 2627. — De. 7688.
Armeniaca. — P. 1820. — S. hd. 2549. — Sp. 4911.
Armeria. — S. d. 3586.
Armoracia. — T. 8052.
Arnica. — M. 7271.
Arrhenatherum. — Sp. 5080.
Arrhenia. — P. 1562.
Artemisia. — S. h. 2330. — S. hd. 2723. — S. pp. 3142, 3257, 3295, 3324, 3488. — S. d. 3611, 3707. — Do. 4159. — Sp. 6216, 6228, 6347, 6469, 6489, 6490, 6491. — Me. 7039. — De. 7488, 7515, 7804.
Arthonia. — S. hd. 2779. — De. 7361.
Arthrodesmus. — Ph. 1518.
Artocarpus. — S. p. 2159. — T. 8123.
Arum. — U. 1291. — De. 7444.
Arundinaria. — P. 1780. — S. h. 2424. — S. pd. 3098. — S. pp. 3322. — H. 4021. — Hy. 4345,
Arundinella. — U. 1257.
Arundo. — S. hd. 2704. — S. pd. 3014. — S. pp. 3235, 3236. — Do. 4101. — Mi. 4203. — D. 4574. — Sp. 5384. — De. 7426, 7449,
Arvicola. — St. 7958.
Asarum. — Ph. 1503. — S. h. 2336.
Asclepiadeæ. — P. 1655, 1656. — Do. 4057. — Le. 6628.
Asclepias. — U. 1377. — P. 1685. — S. h. 2340. — S. s. 3729. — S. hd. 2730, 2956. — Sp. 5542, 5695, 6403. — Me. 6857.
Asclepiodora. — De. 7657.
Ascyrum. — De. 7468.
Asimina. — De. 7669. — Sp. 6507.
Asinus. — D. 4587.
Asparagus. — P. 1606. — S. pp. 3203, 3205, 3206, 3207, 3209, 3259. — S. s. 3757. — Sp. 5368, 5560, 5919, 6120, 6121. — T. 8085, 8086.
Asperula. — S. d. 3623. — D. 4645.* — Sp. 5675, 6369.
Aspicilia. — S. h. 2435. — S. hd. 2785. — S. pd. 2962, 2966. — D. 4565, 4680, 4712, 4714.
Aspidistra. — Sp. 6422.
Aspidium. — D. 4496. — M. 7222.* — Do. 4139.
Aspidopterix. — Le. 6619.
Asplenium. — Do. 4141.
Asprella. — U. 1275.
Aster. — Sp. 6357, 6358. — De. 7614. — S. hd. 2960. — U. 1288.
Asteridium. — P. 1712.
Asterina — D. 4562. — Sp. 5516, 5517. — P. 1721, 1815.
Astragalus. — U. 1207, 1351. — S. hd. 2494. — S. d. 3703. — Sp. 5021, 5281, 5282, 6302. — Me. 6847. — De. 7467, 7773, 7781. — T. 8050.
Astronium. — Do. 4070.
Athamantha. — Sp. 5328.
Atherospermum. — My. 4857.
Atragene. — Sp. 6500.
Atriplex. — De. 7830.
Atropa. — S. hd. 2551. — Sp. 5311.
Auchenia. — S. p. 2020. — S. pd. 3061. — S. pp. 3326, 3327. — H. 3797. — D. 4589.
Aucuba. — P. 1628. — S. d. 3569. — Sp. 4895, 5155, 6503.
Audibertia. — S. s. 3739.
Aurantiaceæ. — H. 3956.
Auricularia. — My. 4803.
Avena. — Us. 1161, 1162, 1173. — U. 1289. — De. 7475, 7556. — T. 8099.
Axyris. — Sp. 6478.
Azalea. — S. hd. 3703. — H. 3926. — M. 7257.
Azara. — P. 1660.
Azorella. — S. hp. 3377. — S. d. 3567, 3568. — Sp. 5321.

Baccharis. — P. 1754. — S. hd. 2955.

— S. pp. 3147. — Do. 4121. — Sp. 5206, 6070, 6513.
Bæomyces. — H. 3820, 3821, 3822. — D. 4669, 4677, 4683, 4761.
Ballota. — M. 7290.
Balsamea. — U. 1364.
Bambusa. — P. 1778. — S. p. 2038. — 2135. — S. h. 2429. — S. hd. 2681. — S. pp. 3297. — H. 3947, 3959. — Do. 4155. — My. 4835. — Sp. 5683, 5735. — Le. 6589, 6590, 6611. — Me. 6874. — M. 7057. — De. 7358, 7424, 7561, 7563, 7853. — St. 7889, 7965.
Bambusaceæ. — P. 1716, 1800. — S. hd. 2860. — S. pd. 3017. — S. s. 3786. H. 3890, 3905, 3932, 3955, 3970. — Do. 4098, 4099, 4107, 4112, 4176, 4188, 4218. — Sp. 5077, 5617, 5923, — N. 6543, 6554. — Me. 6873. — De. 7562. — T. 8095.
Banksia. — P. 1723. — S. hd. 2578. — S. pd. 3000. — D. 4603. — Me. 6946.
Baptisia. — S. hd. 2491, 2492, 2493.
Barbarea. — M. 7260.
Barbula. — D. 4713.
Barleria. — P. 1611.
Barnadesia. — U. 1230. — T. 8011.
Barringtonia. — Sp. 5116.
Bartsia. — Sp. 5608, 6221, 6469. — M. 7204.
Batatas. — Ph. 1425. — Sp. 5508.
Bauhinia. — S. h. 2437. Sp. 4887. — Me. 6749.
Bembidium. — La. 4460.
Berberis. — S. a. 1868, 1930, 1961. — S. p. 1990, 2075. — S. h. 2359, 2392. — S. hd. 2588, 2589, 2858. — S. pp. 3182. — S. hp. 3510. — S. d. 3681. — H. 3849, 3981. — Mi. 4192. — L. 4297. — Hy. 4428. — D. 4507, 4764, 4768. — Sp. 4865, 5175, 5533, 5687, 5756, 6066, 6195, 6196, 6197. — Le. 6571. — Me. 6756, 6840. — T. 7969.
Bernicla. — S. p. 2016. — S. pp. 3337.
Berteroa. — Sp. 6299.*
Beta. — S. hd. 2509, 5347. — Sp. 5916, 5999, 6001, 7132. — De. 7663.
Betonica. — U. 1403. — Sp. 6475. — M. 7203.
Betula. — Ph. 1540. — S. a. 1853, 1870, 1916, 1947. — S. hd. 2805, 2806, 2861, 2937. — S. pd. 2987, 3070, 3076, 3078, 3081, 3082, 3083, 3088. — S. pp. 3285, 3305, 3310. — S. hp. 3470, 3471. — S. d. 3593, 3620. — S. s. 3752, 3781. — H. 3948, 4006. — Do. 4146. — D. 4534, 4750, 4776. — My. 4809. — Sp. 5452, 5501, 5633, 5667, 5720, 6098, 6149, 6535, 6536. — Me. 6862 *, 6888, 6917. — M. 7077, 7185. — De. 7365, 7399, 7518, 7528, 7783, 7797. — T. 8002, 8022, 8037.
Biatora. — S. p. 2028. — S. h. 2434, 2780. — S. pd. 2976. — D. 4705, 4744.
Biatorina. — S. hd. 2786.
Bidens. — Sp. 6345, 7272.
Bigelovia. — P. 1572. — Do. 4151. — De. 7834.
Bignonia. — U. 1262, 1374. — P. 1662, 1750. — S. hd. 2580. — H. 3973. — Do. 4037, 4038, 4039, 4143. — Sp. 6023. — Me. 6766, 6957. — De. 7540, 7711.
Bignoniaceæ. — P. 1735. — Do. 4179. — Mi. 4225. — Sp. 5532. — St. 7929.
Bilimbia — D. 4708.
Billbergia. — P. 1712, 1801. — Sp. 6133.
Bladius. — La. 4452.
Blastenia — D. 4705.
Blechnum. — H. 3990. — Mi. 4208.
Bobartia. — S. pd. 3008. — Sp. 6125.
Bœhmeria. — Sp. 6412.
Boërhavia. — Sp. 6413. — De. 7660.
Bolax. — S. hd. 2538.
Boletus. — De. 7770.
Bombus. — M. 7114.
Borrera. — S. pd. 2974.
Bos. — S. p. 2002, 2003. — S. pd. 3059, — S. pp. 3331. — H. 3796, 3797. — D. 4559, 4586, 4590, 4596. — M. 7048,
Botryosphæria. — H. 3792.
Botrytis. — H. 3835.

Bouddleia. — S. hd. 2590. — Sp. 5146, 5147. — De 7497.
Bouteloua. — Us. 1171.
Bouwardia. — Sp. 5813, 6458.
Brabeium. — Sp. 4977.
Brachylospermum. — De. 7668.
Brachypodium. — Do. 4094. — Sp. 6010.
Brassica. — P. 1591. — S. a. 1962. — S. hd. 2504. — S. pd. 3097. — S. pp. 3332. — S. d. 3582. — H. 3788, 3859. — Me. 6845, 7008. — M. 7156, 7199, 7512, 7549. — T. 8032, 8033.
Brayera. — S. hd. 2706.
Briza. — S. pp. 3242.
Bromelia. — S. hp. 3425. — Do. 4084. — Sp. 5118.
Bromeliaceæ. — Le. 6655.
Bromus. — U. 1260. — Us. 1176. — S. p. 3093. — S. pp. 3228. — Sp. 5619.
Broussonetia. — S. d. 3714. — Sp. 5221. — De. 7348.
Brownea. — Mi. 4250.
Brunella. — S. pp. 3156. — Sp. 6381, 6382. — M. 7288, 7288.
Bryonia. — Sp. 5295. — M. 7070, 7282.
Bryum. — S. d. 3604.
Buchloë. — Us. 1169, 1178. — U. 1277. — De. 7753.
Buellia. — S. hd. 2782. — D. 4688.
Buphthalmum. — Sp. 6352.
Bupleurum. — U. 1387. — S. pp. 3141. — Sp. 5754.
Bursaria. — S. p. 2300.
Butomus. — Ph. 1543.
Buxus. — S. h. 2357, 2358. — S. hd. 2587, 2747. — S. pd. 2990. — S. pp. 3272. — S. d. 3637, 3652, 3661, 3674, 3685. — Hy. 4395. — D. 4561. — Sp. 4938*, 5879. — Le. 6570. — De. 7542.
Byrsonima. — Sp. 5432. — T. 8028.

Cacalia — Sp. 6348.
Cactus. — Sp. 5770.
Caladium. — M. 7081.
Calamagrostis. — S. p. 2095. — S. h. 2428. — Hy. 4407. — D. 4615. — Sp. 6011, 6437, 6438. — Le. 6591. — E. 6710. — M. 7321. — T. 8043.
Calamintha. — S. d. 3588. — Sp. 5041.
Calamus. — H. 3984. — Mi. 4220. — Hy. 4367. — Sp. 5615, 5933.
Calceolaria. — M. 7166.
Calendula. — P. 1551.
Calimeris — Sp. 6485.
Calla. — Sp. 6417.
Callicarpa. — S. h. 2460.
Callirrhoë — Sp. 5548.
Callixenes. — Mi. 4192.
Callopisma. — S. hd. 2780. — S. pd. 2971, 2973. — D. 4714.
Calluna. — S. pp. 3185. — D. 4532, 4629, 4688.
Calocera. — T. 8118.
Calpurnia. — Sp. 5944.
Caltha. — S. h. 2324. — D. 4650. — De 7571.
Calycanthus — Sp. 5114, 5787, 6192. — De. 7836. — T. 7971.
Calystegia. — Do. 4142. — Sp. 5301, 6392.
Camelina — Me. 6791.
Camellia. — S. pp. 3189. — S. hp. 3453. — Sp. 4868, 5091, 5092, 5093? 5094, 5095. 5096, 5097, 5407, 5425, 5551, 5954, 5955, 5956, 6079, 6456. — Le. 6615. — Me. 6912, 6935, 6936. — De. 7837.
Camelus. — S. p. 2012.
Camillea. — S. h. 2353. — Sp. 5093.
Campanula. — S. hd. 2488, 2543. — S. hp. 3451, 5609. — Me. 6901, 6393, 6469, 6474.
Camphorosma. — S. pp. 3133.
Camponotus. — H. 4009.
Canis. — S. p. 1987, 1996. — S. pd. 3060. — N. 6552. — M. 7139. — St. 7894.
Canavalia — Sp. 6306.
Candelaria. — D. 4668.
Cannabis. — S. p. 2007. — S. pp. 3333. — S. s. 3731. — Sp. 5483, 6411. — De. 7790.
Cannaceæ. — P. 1779.

Canthium. — Sp. 5873.
Capparis. — P. 1802. — S. pd. 2979, 5179, 5180, 5181, 5706.
Caprea. — S. p. 2001.
Capreolus. — S. pd. 3063. — D. 4596.
Capsella. — Me. 7009.
Carabus. — St. 7922.
Caragana. — D. 4768. — Sp. 4891. — sp. 6181.
Cardamine. — Sp. 5261, 6469.
Carduus. — U. 1252. — S. pp. 3145. — Sp. 5268, 5269, 5270. — M. 7270. — T. 8079.
Carex. — U. 1222, 1258, 1259, 1286, 1287. — Us. 1184. — S. h. 2421. — S. hd. 2846. — S. pp. 3219, 3220. — S. hp. 3430, 3458. — D. 4523. 4530, 4542, 4564, 4576, 4577. — Sp. 5565, 5733, 6164, 6430, 6431, 6432, 6516. — Me. 7033. — M. 7303. — De. 7379, 7383, 7386, 7413. — T. 8089, 1286, 1287.
Carica. — Sp. 5082, 5192, 5960. — M. 7143. — De. 7720, 7721.
Carissa. — Hy. 4357.
Carlina. — Sp. 5276.
Carpha. — S. hd. 2751.
Carpinus. — S. a. 1852, 1920. — S. p. 2218. — S. h. 2307, 2455, 2461. — S. hd. 2819, 2889, 2890, 2912. — S. pd. 3033, 3038, 3096. — S. pp. 3261. — S. hp. 3404. 3500, 3501, 3528. — H. 3867. — D. 4507, 4569, 4605, 4770, 4772, 4777. — Sp. 5422, 5450. — Le. 6566. — Me. 6860, 6865, 6875,* 6881, 6995. — M. 7225. — De. 7470, 7514. — T. 8000.
Carya. — S. a. 1889, 1918. — S. hd. 2568. — S. pd. 3025. — S. d. 3718. — S. s. 3780. — H. 3978. — Sp. 4970, 4971, 6094, 6285. — Me. 6778. — M. 7247, 7259. — De. 7469. — Me. 6864. — De. 7729. — T. 7998.
Caryophyllaceæ. — S. pp. 3138. — Le, 6654.
Casalea — M. 7072.
Casnonia. — La. 4458.
Cassandra. — S. hd. 2829. — Sp. 5941.
Cassia. — U. 1295, 1368. — S. hd. 2490. — S. d. 3557. — Sp. 4889, 5763, 6308. — De. 7679, 7681, 7833, 7838. — T. 7990, 8020.
Cassinia. — S. pp. 3340.
Cassiope. — S. hp. 3413.
Cassis. — St. 7924.
Castanea. — S. a. 1893. — S. p. 1983. S. h. 2360. — S. hd. 2735, 2879. — H. 3830, 3831, — D. 4766. — Sp. 4955, 5220, 5820, 6145, 6508. — De. 7525. — Le. 6565, 6676, 6677. — Me. 6966, 7041. — Mi. 7178.
Castanospermum. — P. 1621. — Sp. 5510.
Castilleja. — U. 1330.
Casuarina. — D. 4540. — Me. 6951.
Catabrosa. — S. pp. 3231.
Catalpa. — P. 1567. — S. p. 2294. — Sp. 4990.
Cavia. — S. pp. 3329.
Ceanotus. — La. 1958. — S. p. 2133. S. pd. 2995. — Hy. 4409. — Mo. 7001. — De. 7707.
Cedrela. — Do. 4041. — Sp. 5588.
Cedrus. — U. 1358. — Sp. 5896.
Celastrus. — P. 1806. — S. hd. 2742.
Celmisia. — U. 1371.
Celtis. — P. 1548, 1555, 1557, 1558. — S. hd. 2644, 2645, 2734. — D. 4731, 4732, 4766. — Sp. 4972, 5231, 5232, 5595, 5807, 5808, 5771, 5885, 6096, 6506, 6533. — E. 6694. — Me. 6779. — De. 7806. — T. 8072, 8073.
Cenangium. — S. hd. 2702.
Cenchrus. — Do. 4096.
Centaurea. — U. 1287, 1342. — S. hd. 2522. — Sp. 6341.
Centella. — Sp. 6336.
Centranthus. — Sp. 5334, 6372. — M. 7283.
Cephalanthus. — Sp. 5478, 5760.
Cephalaria. — Sp. 5024, 6368.
Cerambicideæ. — H. 4011.
Cerastium. — S. hd. 2526. — Sp. 5320.
Cerasus. — P. 1596. — S. hd. 2621, 2907.

— Sp. 5577, 5710*, 5837, 6077, 6251. — De. 7536.
Ceratonia. — Sp. 6246.
Cercis. — S. a. 1904. — S. hd. 2560. — S. pd. 2994. — Do. 4024. — D. 4507. — Sp. 5712, 5473, 6242*. — M. 7306.
Cercospora. — M. 7143.
Cerefolium. — Sp. 6470.
Cereus. — Do. 4162. — Sp. 5625, 5875, 6151. — Me. 6729, 6730. — De. 7355. — D. 7973.
Cervus. — D. 4583, 4585, 4593, 4594, 4596, 4598.
Cestrum. — P. 1650, 1652. — Le. 6624, 6625.
Chænomeles. — Sp. 5110.
Chærophyllum. — S. pp. 3141. — Sp. 5015, 6335. — De. 7464.
Chætomium. — Us. 7208.
Chamædorea. — Me. 6810.
Chamænerium. — Me. 6899. — M. 7269.
Chamærops. — Sp. 2089. — S. pp. 3213. — H. 3791. — S. hp. 3419. — De. 4108. — Sp. 5356, 5645, 5776. — De. 7767. — Me. 6962.
Chamissoa. — Sp. 5058.
Chauliognathus. — Ph 1480.
Cheiranthus. — Sp. 5494, 6467.
Chelone. — De. 7378.
Chenopodium. — S. pp. 3130. — Sp. 5343, 5753, 5998, 6049, 6161, 6408, 6515. — Me. 6807. — M. 7056. — De. 7661.
Chiliotrichum. — S. a. 1929. — S. hd. 2932. — S. pp. 3274. — S. hp. 3496. — S. d. 3664, 3665. — Do. 4166. — L. 4270, 4271, 4272. — Sp. 6159.
Chilocorus. — La. 4450.
Chimonanthus. — Sp. 5463, 5582.
Chimophila. — Sp. 6281.
Chiococca. — P. 1705.
Chionanthus. — S. hd. 2916. — Sp. 5135.
Chironemus. — Ph. 1486, 1492.
Chlæon. — Ph. 1497.
Chloris. — De. 7755, 7762.
Chlorogalum. — Sp. 6498.
Chondrilla. — S. pp. 3146. — Do. 4133.
Chondrum. — S. pp. 3255.
Chrysanthemum. — S. pp. 3141. — Sp. 6349.
Chrysobatrum. — Sp. 6119.
Chrysopogon. — U. 1261.
Chrysopsis. — U. 1345. — De. 7623.
Chrysosplenium. — Sp. 6332, 6333.
Chusquea. — Sp. 6060, 6445.
Cicada. — Sp. 5574.
Cichoriaceæ. — S. p. 1985.
Cichorium. — S. hp. 3369. — Sp. 5265, 5909.
Cicuta. — Me. 7017.
Cinchona. — De. 7703.
Cinnamomum. — M. 7145.
Cirsium. — Us. 1188. — S. pp. 3114, 3148. — S. hp. 3368, 3488. — S. s. 3726. — H. 3951. — D. 4512. — Sp. 6470. — S. h. 2387. — De. 7779.
Cissus. — U. 1335. — S. a. 1890. — Sp. 5174. — Me. 6734, 6735.
Cistus. — S. pp. 3181. — Hy. 4403. — D. 4730. — Sp. 5176, 5177, 5849, 6180. — Me. 6907.
Citrullus. — Sp. 6374.
Citrus. — S. a. 1928. — S. p. 2046, 2213, 2252. — S. hd. 2564. — S. d. 3663. — H. 3961, 3996. — Mi. 4249. — D. 4475. — Sp. 4872, 4873, 4874, 5164, 5165, 5408, 5460, 5583, 5604, 6190, 6256. — E. 6692. — Me. 6737, 6738, 6739, 6740. — M. 7080, 7118, — T. 8119.
Cladium. — Me. 6819.
Cladonia. — D. 4663, 4759. — Sp. 5790.
Cladophora. — Ph. 1505, 1519. — De. 7791.
Cladosporium. — M. 7156.
Clavaria. — H. 3799. — M. 7058.
Clematis. — U. 1306, 1231. — P. 1726. S. a. 1941. — S. hd. 2484, 2485, 2486, 2711. — S. pp. 3119, 3269. — S. hp. 3361, 3444, 3445. — S. s. 3735, 3736. — D. 4502. — Sp. 5005, 5006, 5254, 5550, 5652, 5973, 6135, 6500. — Me. 7007. — M. 7236. — De. 7425.
Cleome. — U. 1347. — De. 7586, 7760.

Clerodendron. — Sp. 5178.
Clethra. — D. 4550.
Clitoria. — De. 7683.
Clusia. — Me. 6084.
Cneorum. — Sp. 5685, 6209.
Cnicus. — Sp. 6342. — De. 7613.
Cocculus. — Sp. 4991. — Me. 6831.
Cochlearia. — Sp. 5506.
Cocos. — S. p. 2101, 2249. — S. hd. 2659. — Do. 4086, 4109, 4110. — Sp. 5067, 5068, 5355, 6414, 5438. — N. 6544. — De. 7340, 7737. — T. 8144.
Coffea. — P. 1675. — S. pp. 3321. — Hy. 4377. — M. 7256. — De. 7701.
Cola. — Mi. 4241.
Coleochæte. — Ph. 1512.
Coleoptera. — Ph. 1496. — St. 7925.
Collema. — S. h. 2433. — S. d. 3581.
Colliguaja. — H. 4016.
Collinsonia. — De. 7776.
Colocasia. — Ph. 1447. — Sp. 5777. — M. 7108. — De. 7766, 7819.
Colpodium. — S. h. 2376.
Colpoma. — Sp. 5393.
Coluber. — M. 7083.
Columba. — St. 7927.
Colutea. — S. hd. 2561. — Sp. 5640, 6525.
Comandra. — De. 7666.
Comarum. — P. 1689. — S. hd. 2839. — Sp. 6313.
Commelina. — N. 6542.
Compositæ. — U. 1880. — P. 1654, 1728, 1729, 1755, 1799, 1824. — S. hd. 2792, 2795. — S. pp. 3144. — H. 3988. — Do. 4134. — D. 4513. — Sp. 5689. — De. 7627.
Comptonia. — S. hd. 2887. — S. pp. 3345. — Me. 6879.
Conferva. — Ph. 1537.
Confervaceæ. — Ph. 1524.
Coniferæ. — D. 4520. — S. d. 3676.
Convallaria. — U. 1274. — S. d. 3596. — Sp. 5484.
Convolvulaceæ. — P. 1711, 1774, 1775. — Mi. 4217.
Convolvulus Sp. 5300. 5417. 6392.* — De. 7644.
Copaifera. — Do. 4042.
Copernicia. — Do. 4087.
Coprosma. — U. 1241. — Sp. 6271.
Coptis. — Sp. 6469.
Cora. — S. pp. 3254.
Corallorrhiza. — S. pp. 3215.
Cordyline. — Do. 4088. — Sp. 5072.
Corema. — S. hd. 2949. — S. d. 3691.
Coriaria. — S. hp. 3452. — Sp. 5195, 6068. — M. 7067, 7225.
Corispermum — Sp. 6218.
Cornus. — P. 1751. — S. a. 1871, 1932. — S. p. 2035, 2071. — S. h. 2236. — S. hd. 2608. — S. pp. 3100. — L. 4304. — Hy. 4442. = Sp. 4894, 5409, 5661, 5852, 6034, 6236. — Me. 6868, 6941, 6942. — M. 7253. — De. 7796.
Cordia — Sp. 5874.
Coronilla Sp. 5825, 5827, 5828, 6070. — De. 7680.
Correa. — P. 1622.
Corticium — M. 7162. — De. 7870.
Cotoneaster. — Sp. 5651.
Corydalis. — U. 1332.
Corylus. — S. hd. 2567, 2856, 2886. — S. hp. 3400, 3514. — S. d. 3551. 3706. — L. 4305. — D. 4507, 4532, 4749, 4767, 4768, 4769, 4773. — Sp. 4962, 5592, 5628, 5892. — Me. 6986. — Sp. 6524. — E. 6706. — Me. 6673. — T. 7976.
Cotoneaster. — S. a. 1866.
Cotula. — D. 4651.
Corypha. — Sp. 5352.
Crassula. — Sp. 5901.
Cratægus. — S. a. 1923. — S. p. 2220. — Sh. 2462. — S. hd. 2905. — D. 4507, 4604, 4643, 4692, 4735, 4773. — Sp. 4908, 5100, 5487, 5710.* 5839. — E. 6667. — Me. 6825, 6905.
Crepis. — U. 1343. — Sp. 5267. — M. 7279.
Cressa. — U. 1271.
Crinum. — Sp. 5441.
Crocodilium. — Ph. 1416.

Crocodylus. — D. 4600.
Crocus. — M. 7165, 7218.
Croton. — S. h. 2438. — Sp. 5193.
Crucianella. — U. 1246.
Cryptolopsis. — U. 1378.
Cryptomonas. — Ph. 1516.
Cryptosporella. — D. 4636.
Cryptotænia. — Sp. 6330.
Cucumis. — S. hd. 2716. — Sp. 5988.
Cucurbita. — S. a. 1926. — S. h. 2338. — Sp. 5047, 5746, 5900. — M. 7062. — De. 7333, 7651, 7805, 7863.
Cucurbitaceæ. — P. 1761, 1762.
Cucurbitaria. — H. 3880.
Cucumis. — M. 7059. — De. 7477, 7484.
Culex. — Ph. 1491, 1492.
Cuniculus. — S. p. 2004, 2011, 2013, 2021, 2023, 2024, 2025, 2026, 2204. — S. pd. 3057, 3058, 3062. — S. pp. 3334, 3336, 3339. — H. 3824. — D. 4584, 4591, 4592, 4596. — M. 7212.
Cunninghamia. — Sp. 5237, 5428.
Cupania. — P. 1796. — Me. 6947.
Cuphea. — Sp. 6391.
Cupressus. — U. 1297. — S. hd. 2812. — S. hp. 3407. — Hy. 4363. — Sp. 5398.
Curatella. — H. 3934.
Curcuma. — M. 7173.
Cyananthus. — S. hd. 2544.
Cycas. — Sp. 4998, 5248. — Le. 6580. — De. 7411.
Cyclanthera. — De. 7652.
Cyclotella. — Ph. 1535.
Cydonia. — S. a. 1845, 1846. — S. hd. 2814, 2906. — Sp. 5102, 5630, 5710, 6453. — Me. 6745, 6908. — M. 7094, 7192.
Cymbidium. — Me. 6839.
Cynanchum. — U. 1248.
Cynara. — De. 7841.
Cynodon. — P. 1715. — S. h. 2430. — S. pp. 3246.
Cynoglossum. — Ph. 1440. — D 4514.
Cyperaceæ. — Us. 1172.
Cyperus. — Sp. 5509,* 6163. — D. 7357
Cyrilla. — S. h. 2467. — Sp. 4924.
Cyrtomium. — De. 7344.
Cytisus. — Sa. 1906. — S. hd. 2893. — H. 3986. — Sp. 4884, 4885, 5085, 5762, 6183, 6184, 6230, 6452.* — De. 7758.
Cytospora. — T. 8065.
Cyttaria. — Sp. 5620, 5621, 5788. — De. 7362.

Dactylis. — S. hd. 2687. — S. pp. 3243. — D. 4527.
Dædalacanthus. — St. 7967.
Dædalea. — St. 7898.
Dahlia. — Ph. 1423. — H. 3875. — Sp. 5028.
Dalbergia. — De. 4032, 4119.
Dalea. — U. 1321. — De. 7592.
Dalibarda. — Sp. 6315.
Dama. — U. 6560, 7112.
Dammara. — U. 1355. — S. h. 2368.
Daphne. — Sp. 4987, 5191, 6091, 6208. — Me. 6768.
Dasylirion. — Sp. 5784, 5785.
Dasyphora. — H. 4007.
Datisca. — S. h. 2388.
Datura. — Sp. 5525.
Daucus. — Ph. 1421. — M. 7127.* — De. 7600, 7847.
Daviesia. — Sp. 5084. — De. 7685.
Deeringia. — U. 1305.
Delphinium. — Sp. 5255, 5256, 5257
Dematium. — De. 7460.
Dendrobium. — Sp. 6054.
Dendromecon. — S. pp. 3104. — S. h. 3621.
Dentaria. — Sp. 6300.
Desmidiaceæ. — Ph. 1528.
Desmodium. — U. 1365, 1366. — P. 1745. — S. hd. 2500. — Sp. 5020. — Me. 6877.*
Deutzia. — U. 1362. — S. pp. 3173. — L. 4273, 4274. — Sp. 4875. — M. 7073. — De. 7687.
Dianthera. — P. 1696.
Dianthus. — U. 1267. — S. h. 2328. — S. hd. 2529, 2530, 2930. — Sp. 5319, 5972, 6320. — De. 7818.

Diapensia. — S. hd. 2488. — Sp. 5052.
Diaporthe. — De. 7565.
Diatomaceæ. — Ph. 1522.
Diatrype. — S. h. 2447. — S. pp. 3298. — S. d. 3645, 3690. — H. 3907, 3994, 3995. — L. 4315. — D. 4638. — De. 7531.
Dicentra. — U. 1332.
Dichæna. — M. 7326.
Dichondra. — P. 1773. — S. hd. 2838.
Dicotyledoneæ. — Sp. 6042.
Dictyophora. — H. 3943.
Dictyostelium. — Ph. 1416.
Diervillea. — Sp. 6273, 6274.
Digitalis. — S. hd. 2547. — S. pd. 2980. — Sp. 5036. — De. 7473.
Dimelæna. — S. hd. 2787.
Diodia. — De. 7702.
Dioscorea. — S. hd. 2671. — M. 7300.
Diospyros. — H. 3803. — Sp. 5202. Me. 6771. — De. 7716, 7717, 7718.
Distichlis. — Do. 4135.
Diploglottis. — U. 1212. — S. p. 5201.
Diplotomma. — D. 4754. — De. 7820.
Dipsacus. — S. hd. 2515. — S. s. 3730. Sp. 5278, 6483. — De. 7628.
Diptera. — Ph. 1474, 1475, 1477, 1486, 1487, 1489.
Dodecanthea. — Sp. 5053.
Dolichos. — De. 7590.
Donax. — S. pd. 3016.
Dorstenia. — U. 1285.
Dorycnium. — S. pp. 3134.
Draba. — P. 1550. — S. h. 2332. — S. hd. 2488, 2502. — S. d. 3585. — Sp. 5979, 6468, 6469.
Dracæna. — Me. 6874. — Sp. 5682. — De. 7344, 7505. — S. d. 3552, 3553. Hy. 4368, 4433. — Us. 1156.
Dryas. — Ph. 1502. — S. h. 2313. — S. hd. 2531, 2793, 2840. — S. pd. 3002. — S. pp. 3279. — S. hp. 3358. — S. d. 3616. — Sp. 6314.
Drymis. — P. 1597, 1738. — S. hd. 2604, 2947. — H. 3980. — Mi. 4230. — Hy. 4356. — Sp. 4869, 5182, 5183, 5586, 6269. — De. 7442.
Drypis. — S. pp. 3198.

Ebenaceæ. — U. 1338.
Echinocactus — Sp. 6151.
Echinospermum. — Ph. 1440.
Echinops. — S. hd. 2521. — L. 4332.
Echium. — S. p. 1982.
Ectocarpus. — Ph. 1533.
Ehretia. — Sp. 5416.
Elæagnaceæ. — Ph. 1428.
Elæagnus. — Sp. 5129, 5130, 5754, 6065, 6231, 6278. — M. 7323.
Elephantopus. — De. 7612.
Eleusine. — De. 7750.
Elodea. — Ph. 1571.
Elymus. — U. 1303. — S. d. 3622. — Sp. 6225.
Embothryum. — S. hd. 2577. — Sp. 4978, 5674.
Empetrum. — S. h. 2410. — S. pp. 3274. — S. hp. 3498. — S. d. 3664. Hy. 4437. — Sp. 6280. — Le. 6600.
Encephalartus. — Me. 6785, 6786.
Enckea. — Do. 4062, 5339.
Endocarpon. — D. 4758.
Enterolobium. — Do. 4034.
Ephedra. — Sp. 6212.
Epigea. — Sp. 4947.
Epilobium. — P. 1687, 1688. — S. hd. 2488, 2540, 2728. — S. h. 2445. — S. pp. 3127, 3258. 3265. — S. hp. 3497. — S. d. 3583. — L. 4277. — D. 4541. — Sp. 5044, 5335, 3335.* 5336, 5914, 6110. — Le. 6620. — Me. 7802, 6899, 6922. — M. 7269. — De. 7872.
Equisetum. — Ph. 1433. — S. hd. 2698. — Sp. 5386, 5442, 6131, 6174, 6175, 6448. — Me 6822, 6823.
Equus. — Ph. 1413, 1419. — S. p. 2010, 2014, 2015, 2017, 2018. — S. pp. 3328, 3330. — H. 3797, 3834, 3837. — D. 4588. — De. 7402.
Eragrostis. — De. 7558.
Eranthemum. — S. pp. 3152. — St. 7967.
Erechtites. — Sp. 6350. — De. 7626

Erianthus. — Us. 1175
Erica. — S. a. 1887. — S. p. 2077. — S. hd. 2827. — Sp. 5815
Ericaceæ. — S. hd. 2613.
Erigeron. — S. hd. 2927. — S. pp. 3141.
Eriobotrya. — Me. 6875.
Eriophorum. — Sp. 6426. — Me. 6988.
Eryngium. — U. 1320. — S. pp. 3107, 3111. — Sp. 5322. 5323, 6334. — Me. 7018..
Erysimum. — U. 1234. — S. hd. 2503. — Sp. 5258.
Erythrina. — De. 7677.
Erythroxylon. — Sp. 4986.
Escallonia. — S. pp. 3275. — S. hp. 3498. — S. d. 3687. — L. 4318. — Hy. 4417. — Le. 6604.
Eucalyptus. — P. 1557, 1607, 1758, 1808. — S. p. 2061. — S. h. 2439. — S. hd. 2898. — S. pd. 3003. — S. pp. 3141, 3260. — S. hp. 3403, 3409. — S. d. 3662, 3677, 3684. — H. 3795, 3888, 3901. — Do. 4025, 4165. — Mi. 4196, 4236. — Hy. 4338. 4344, 4354, 4369, 4426, 4444. — D. 4635. — Sp. 4921. — Sp. 5115. 5419. 5496, 5579, 5711, 6140, 6253.* 6191. — N. 6555. — Le. 6567, 6568, 6596, 6602, 6616, 6652, 6715. — Me. 6748, 6858, 6904, 6911. — M. 7174. — De. 7527, 7696, 7697. — T. 8019, 8136.
Euchelia. — Ph. 1478.
Euclea. — P. 1664.
Eugenia. — P. 1634, 1635, 1677. 1804. — S. p. 2260. — S. hp. 3486. — H. 3860. — Do. 4127. — Mi. 4194. 4238. — He. 4426, 4327. — Sp. 4922. 5613, — Le. 6601, 6629, 6645, 6646. — De. 7419. 7774. — T. 8117.
Eulalia. — S. hd. 2688.
Eupatorium. — Ph. 1431. — Sp. 2121. — Do. 4158. 6663. — De. 7615, 7616.
Euphorbia. — U. 1223, 1228. — S. h. 2386, 2468. — S. hd. 2506, 2507, 2517. 2729, 2760, 2761, 2923. — S. pp. 3159. — Sp. 5696, 5878, 5747, 6405, 6496. — Me. 6763, 6961. — M. 7298. — De. 7492.
Eupithecia. — Ph. 1481.
Euphorbiaceæ. — P. 1707. — H. 4016. — He. 4334. — Le. 6627. — De. 7551.
Euphrasia. — Ph. 1446. — S. hd. 2545.
Eurotia. — U. 1317.
Eurya. — P. 1593.
Eustachys. — De. 7755.
Eutypella. — H. 3092. — M. 7050.
Evonymus. — De. 7686.
Evansia. — S. hd. 2668.
Evernia. D. 4662, 4751. — De. 7359.
Evodia. — P. 1764.
Evolvulus. — P. 1727. 1770. — Sp. 5691. — De. 7552. 7645.
Evonymus. — S. hd. 2571. — S. pp. 3171. — S. hp. 3396, 3415, 3416. — S. d. 3591, 3694. — Sp. 4929, 5158, 5159, 5160, 5647, 5648, 5816, 5962, 6198, 6237. — M. 7308. — De. 7404.
Exacum. — Sp. 5414.

Fagopyrum. — U. 1269. — Sp. 6002.
Fagus. — P. 1559. — S. a. 1865, 1875, 1898. — S. p. 1989, 2052, 2073, 2120, 2122, 2131, 2132, 2177, 2245, 2246, 2259, 2265, 2277. — S. h. 2342, 2396, 2449. — S. hd. 2643, 2774, 2802, 2825, 2857, 2870, 2873. S. pd. 3034, 3080, 3091. S. pp. 3103. 3281, 3282, 3303. S. hp. 3480, 3481, 3512, 3513, 3526, 3536, 3538. — S. d. 3680, 3695. — S. s. 3755. — H. 3826, 3832, 3863, 3864, 3980. — Mi. 4207. — L. 4256. — Hy. 4385, 4416, 4436. — D. 4483, 4484, 4536, 4570, 4617, 4618, 4634, 4687, 4689, 4691, 4743, 4766, 4767, 4777. — My. 4826. — Sp. 4956, 4957, 5216, 5217, 5218, 5219, 5454, 5455, 5456. 5457. 5498, 5505, 5602, 5620, 5621, 5627, 5643, 5663, 5788, 5800, 5928, 6027, 6227, 6291. — Le. 6605, 6640. — E. 6668, 6679. — Me. 6672, 6875.* 6915, 6916. — M. 7045, 7088.

— De. 7436. 7786, 7809. — St. 7935. — T. 7977, 8046. Feijo. — S. pd. 3070.*
Ferula. — S. hp. 3375.
Festuca. — S. hd. 2754. 2848. — S. d. 3578. — Sp. 5380.
Ficus. — U. 1399. — P. 1746, 1747, 1748. — S. h. 2309, 2457. — S. hd. 2651; 2826, 2920. — S. pp. 3284. 3349. — S. hp. 3398. — S. d. 3644. — S. s. 3745. — H. 3971. — Do. 4053, 4054, 4055, 4056, 4117. — M. 4195. — Hy. 4388. — Sp. 4975, 4976. 5213, 5214, 5453, 5929, 6148, 6461. — Le. 6608, 6653. — Me. 6780, 7038. — F. 7978. — 8071, 8185.
Filices. — S. h. 2382. — H. 3878. — My. 4828.
Fimbristylis. — Do. 4089.
Firmiana. — S. hd. 2569.
Fœniculum. — S. pp. 3112.
Fomes. — S. p. 1980. — H. 3820. — D. 4490. — De 7371.
Fontanesia. — S. hp. 3380. — L. 4261.
Forficula. — Ph. 1479.
Formica. — M. 7327. — St. 7893.
Forsythia. S. hp. 3395. — Sp. 5143, 6081, 6457.
Fourcroya. — S. pp. 3208, 3210. — S. d. 3597. — Sp. 5601.
Fragaria. — U. 1281. — S. hd. 2534, 5745, 5978, 6156. — M. 7092.
Frasera. — P. 1827
Fraxinus. — S. a. 1861, 1867, 1872, 1877, 1931. — S. h. 2364. — S. hd. 2628, 2629, 2630, 2631, 2833, 2917, 2941. — S. pd. 2989, 3092. 3093, 3095. — S. pp. 3190, 3313, 3317, 3347, 3550. — S. hp. 3465, 3545. — S. d. 3594, 3702. — H. 3805, 3806. — Hy. 4421. — D. 4687, 4766, 4768, 4769, 4770. 4773. — My. 4820. — Sp. 4941, 4942, 4943, 5140, 5141, 5142, 5389, 5403. 5502, 5576, 5581, 5626, 5659, 5861, 5951, 5952, 6017, 6084. 6085, 6277, 6459. — Me. 6757, 6758, 6759, 6760. 6761, 6998, 6999, 7000. — De. 7441, 6533, 7708, 7709, 7710. — T. 7977. 7988, 8134.
Fremontia. — Sp. 5953.
Fuchsia. — Sp. 5915. — L. 4270. — S. hd. 2713. — Sp. 5207.
Fuligo. — St. 7901.
Fumago. — M. 7325.
Fungi. — M. 7207.
Funkia. — Sp. 5357.

Galactia. — De. 7591.
Galax. — Sp. 5333.
Galega. — S. hd. 2929.
Galeobdolon. — De. 7849.
Galeopsis. — S. hd. 2720.
Galium. — U. 1227. — S. hd. 2513. — S. pp. 3151. — S. s. 3727. — H. 3873. — D. 4508, 4645*. — Sp. 5902, 5903, 6081, 6370. — N. 6541. — E. 6713. — Me. 6722. — De. 7489.
Gallus. — De. 7439, 7447.
Gardenia. — S. hd. 2618.
Garrya. — S. d. 3709. — Hy. 4362. — Sp. 4949.
Gaultheria. — S. hd. 2828. — Me. 6943. — Sp. 4948. — P. 1665.
Gaura. — De. 7607.
Gaylussacia. — M. 7258.
Geitonoplesium. — S. hp. 3423. — Sp. 5731, 5917, 6222.
Genista. — S. a. 1884. — S. h. 2356. — S. hd. 2891, 3357, 3381. — S. d. 3640. — Sp. 5607, 5761, 5825. — De. 7513. — T. 8063.
Gentiana. — Le. 6583. — S. h. 2323. — S. s. 3740. — S. hd. 2554, 2843. — S. pp. 3106. — Sp. 6160, 6385. — De. 7647, 7648.
Geoglossus. — H. 3801.
Geranium. — U. 1308, 1327. — P. 1547. — S. h. 2404. — S. hd. 2763, 2842, 2909, 2958. — S. pp. 3125. — S. s. 3741. — Sp. 5017. 5018. — E. 6681. — Me. 6856, 7012. — De. 7584, 7585.
Geum. — S. hd. 2762. — S. hp. 3372. — Me. 6793.
Gilia. — S. hp. 3449.

Ginkgo. — Sp. 4999.
Gironniera. — Mi. 4183.
Gladiolus. — S. hd. 2672, 2673, 2910.
Glaucium. — Sp. 6043. — De. 7843.
Gleditschia. — H. 3982. — Sp. 5088, 5475, 5487, 5936. — Le. 6595, 6603. — Me. 6865, 7034, 7495, 7537.
Gloriosa. — St. 7960.
Glottidium. — Me. 6794.
Glyceria. — H. 4000. — T. 8113.
Glycine. — S. hd. 2892.
Glycyrrhiza. — U. 1206. — Sp. 6309.
Gnaphalium. — S. s. 3723.
Gnetum. — Le. 6597. — St. 7884. — M. 7226.
Gomphrena. — U. 1361.
Goodenia. — 1280. — Sp. 5310. — Me. 6801.
Gordonia. — P. 1753. — S. hd. 2601. — Sp. 4993.
Gossypium. — S. d. 3625. — Sp. 5033, 5290. — Me. 6765, 6849. — M. 7264, 7314. — De. 7848.
Grammitis. — Hy. 4393.
Graphis. — S. hd. 2784.
Graminaceæ. — U. 1219, 1276. — P. 1639. — S. p. 2103, 2230, 2205. — S. hd. 2680, 2686, 2692, 2693, 2694, 2752. — S. pp. 3234. — S. d. 3598, 3603. — S. s. 3760. — H. 4014, 4015. — Do. 4103, 4138, 4140. — Mi. 4221. — Hy. 4392. — D. 4524, 4525, 4526, 4576, 4720. — Sp. 5382, 5521, 5566, 5568, 5569, 6173. — E. 6696, 6718. — Me. 6902, 6989. — M. 7321. — De. 7432, 7747. — St. 7938. — T. 7994, 8049, 8058, 8090.
Gratiola. — Sp. 6397.
Grewia. — P. 1617.
Gryllus. — Ph. 1495.
Gunnera. — S. hd. 2552. — Sp. 5057.
Gymnadenia. — S. hd. 2674.
Gymnocladus. — Sp. 5812. — E. 6686.
Gymnogramme. — S. pd. 3018.
Gynerium. — Sp. 5383, 5780, — St. 7917, 7947.
Gyrinopsis. — P. 1795.
Hæmatomma. — S. pd. 2973.
Hakea. — S. pd. 2999. — Hy. 4389.
Halianthus. — S. h. 2334.
Haloxylon. — P. 1570.
Hamadryas. — Hy. 4446. — Sp. 5004.
Hamamelis. — Sp. 4988. — Me. 6974.
Hardenbergia. — Sp. 4881, 6242.
Harpalus. — La. 4456, 4457, 4461, 4462.
Haussknechtia. — Sp. 5203.
Hedeoma. — Ph. 1442.
Hedera. — S. pd. 2993. — S. hp. 3410, 3485. — Sp. 5198, 5699, 5943, 6069. — Me. 6854.
Hedycarya. — Me. 6726.
Helenium. — Sp. 6343, 6344.
Heleocharis. — Sp. 5564, 5779, 6006, 6166.
Helianthus. — Sp. 6346. — De. 7619, 7620.
Helichrysum. — S. p. 2083. — S. hd. 2520. — S. pp. 3195. — Sp. 5910, 6047, 6215. — Me. 6800.
Heliotropium. — U. 1344, 1348. — De. 7491, 7629.
Helleborus. — P. 1686. — S. hd. 2959. — Sp. 5007, 5008, 5251, 5748, 5749, 5906.
Helminthia. — Sp. 5266.
Helophyllum. — U. 1318.
Hemigraphis. — U. 1208.
Hemerocallis. — S. hd. 2670.
Hemiptera. — H. 4005.
Hepaticæ. — S. h. 2380.
Heracleum. — S. pp. 3109. — H. 3828. — Sp. 5324, 5325. — Le. 6613*. — Me. 7014.
Herminiera. — Sp. 5087.
Hesperideæ. — M. 7115, 7119.
Heteromeles. — P. 1793, 1818. — Hy. 4427. — N. 6547.
Heteropogon. — Us. 1195.
Heterosporium. — M. 7108.
Hibiscus. — Ph. 1424. — Sp. 4879, 4880, 5557, 6259. — De. 7840. — St. 7880.
Hieracium. — S. hd. 2517, 2518. — Sp. 6469. — M. 7280.
Hierochloa. — S. pp. 3239, 3240. — S.

d. 3577, 3602. — Sp. 6171. — T. 8059.
Hilaria. — U. 1394.
Hippophaë. — S. hd. 2576, 2894. — S. d. 3657. — Sp. 5126.
Hirea. — P. 1633. — Do. 4059. — Me. 7006.
Homo. — D. 4596. — St. 7895.
Honckeneya. — S. hd. 2794.
Hordeum. — Us. 1164, 1165. — S. hd. 2685. — De. 7508, 7557.
Hormiscium. — Ph. 1521.
Houstonia. — De. 7649.
Hoya. — U. 1247.
Humulus. — S. hd. 2725. — S. hp. 3370. — S. s. 3732. — Sp. 5055, 5056, 5347, 5529, 6052, 6410. — Me. 7022.
Hyacinthus. — S. p. 2045.
Hydnum. — De. 7390, 7434. — T. 8110.
Hydrangea. — S. hd. 2844. — Sp. 4893, 6235.
Hydrocombus. — La. 4449.
Hydrocotyle. — De. 7604.
Hymenophyllum. — Mi. 4246. — N. 6551.
Hymenoptera. — H. 4006.
Hypnum. — M. 7211*. — St. 7920.
Hypericum. — U. 1224, 1331. — S. h. 2469. — S. hd. 2524. — S. hp. 3380. — D. 4537, 4649. — Sp. 6106. — Me. 6792, 6875*, 6926. — M. 7168.
Hyphantria. — Ph. 1475.
Hypheothrix. — H. 3885.
Hypocrea. — M. 7227.
Hypomyces. — M. 7227.
Hypoxylum. — S. hd. 2853. — S. pd. 3054. — S. pp. 3301. — L. 4281. — D. 4489. — De. 7518. — T. 7993.
Hypoxys. — Us. 1198. — Me. 7024. — Do. 4120, 6804. — De. 7632.
Hyssopus. — Sp. 5304.

Idesia. — S. hp. 3418.
Ilex. — P. 1636. — S. h. 2411, 2412. — S. hd. 2606, 2897, 2911. — S. hp. 3408. — Mi. 4247. — D. 4645**, 4769. — Sp. 4930, 4931, 4932, 5156, 5157, 5482, 5584, 5764, 6138. — E. 6685. — Me. 6828, 6829, 6830. — T. 7987.
Imbricaria. — D. 4662, 4664, 4685, 4760.
Impatiens. — Sp. 6322*. — De. 7577.
Inula. — M. 7198. — De. 7817.
Ipomœa. — P. 1653. — Ph. 1429, 1430. — D. 4562. — Sp. 5019, 5418. — Me. 6900. — De. 7641, 6642, 7643.
Iris. — S. h. 2321, 2375. — S. pp. 3201. — Sp. 5358, 5359, 6004, 6055, 6162, 6418. — Me. 7023. — M. 7322. — De. 7450, 7479. — T. 8083, 8084.
Isidium. — De. 7820.
Isoëtes. — Ph. 1536.
Isolepis. — Do. 4091*.
Iva. — U. 1253. — Ph. 1435. S. h. 2417. — Sp. 4992, 6366.

Jacquinia. — P. 1676. — S. hd. 2799.
Janipha. — U. 1381.
Jasminum. — U. 1210, 1334. — Hy. 4347. — Sp. 5136, 5658, 5698, 5863, 6460.
Jatropha. — De. 7722.
Jodes. — U. 1325.
Jonidium. — Me. 6957. — De. 7579.
Juglans. — S. a. 1854. — S. hd. 2737. L. 4321. — Hy. 4340. — D. 4687, 4770, 4772. — Sp. 5233, 5662, 5724*, 5891. — Me. 6875*, 6940, 6993, 7031*. — De. 7501, 7730.
Juncus. — Us. 1187, 1197. — S. h. 2374, 2422. — S. hd. 2677, 2678. — S. d. 3575, 3576. — H. 3928. — Hy. 4392. — D. 4522, 4545, 4546, 4563, 4568, 4578. — Sp. 5371, 6425. — Le. 6592, 6664. — Me. 6841, 7028. — M. 7302. — De. 7384.
Jungermannia. — H. 3865. — D. 4619, 4625.
Juniperus. — P. 1809, 1817. — S. a. 1894. — Sp. 1978. — S. h. 2366, 2367. — T. hd. 2707, 2813. — S. pd. 3040, 3041. — S. hp. 3492, 3519. — S. d. 3635. — Hy. 4382. — D. 4538, 4697, 4720. — Sp. 5727, 5895, 6101. — Le.

6638. — Me. 6920, 6956. — De. 7736. — T. 8003, 8148.
Jussiæa. — De. 7608.

Kalmia. — S. p. 2005. — S. hd. 2614, — S. pp. 3186. — Me. 6944. — De. 7725.
Kennedya. — De. 7678.
Kerria. — Sp. 5765, 6517.
Knautia. — D. 4510. — M. 7281.
Knightia. — P. 1695. — Sp. 5805.
Kœberlinia. — Sp. 6033.
Kœlreuteria. — Sp. 5877.
Körberiella. — S. s. 3761.

Labiatæ. — P. 1657, 1769. 1770. — D. 4602. — Sp. 5039. — Sp. 5426.
Lacerta. — M. 7103.
Lactarius. — H. 3833.
Lactuca. — S. pp. 3122. — S. d. 3555. — Sp. 5995, 6339, 6487. — M. 7197.
Lagenaria. — Sp. 5046, 5296, 5435. — Me. 6850.
Lagenophora. — P. 1710.
Lagerstrœmia. — Sp. 4994, 5199, 5200, 5937, 6502.
Laguncularia. — Mi. 4201.
Laminaria. — Sp. 5395. — De. 7771.
Lamium. — Sp. 3037, 6379. — M. 7289.
Lampsana. — S. pp. 3147*.
Landolphia. — St. 7897.
Lantana. — P. 1770. — Do. 4060.
Lappa. — Sp. 5690.
Larix. — D. 4493. — My. 4683. — Sp. 5245, 5247, 5726. — De. 7759.
Laserpitium. — Me. 7016.
Latania. — Sp. 6415.
Lathyrus. — S. pp. 3136, 3137. — S. d. 3615. — Do. 4106. — Sp. 5982, 6304, 6305, 6512. — De. 7458, 7587.
Laurineæ. — P. 1626, 1739. — H. 3993. — Do. 4048, 4049. — Mi. 4223. — He. 4325. — Hy. 4429. — D. 4582, 4654. — N. 6544. — Le. 6594. — T. 8045.
Laurus. — P. 1588. — S. a. 1904. — Sp. 2047, 2079. — S. hd. 2770, 2919. — H. 3916. — Sp. 5154, 5701, 5769, 5846, 5847, 6081. — De. 7366.
Lavatera. — S. a. 1899. — H. 3972.
Lebetanthus. — S. d. 3664.
Lecanium. — M. 7152.
Lecanora. — S. h. 2432. — S. hd. 2780, 2788, 2791. — S. pd. 2968, 2973, 2977, 3022. — S. s. 3763. — D. 4666, 4667, 4679, 4695, 4703, 4707, 4710, 4746, 4753. — De. 7361, 7820.
Lecidella. — S. hd. 2758.
Lecidea. — S. pd. 2973, 3021. — D. 4660, 4706. — De. 7361.
Ledum. — Sp. 5942, 6039. — Me. 6769. — De. 7405.
Leguminosæ. — U. 1404. — P. 1766. — S. d. 3617. — H. 3802, 3938. — Do. 4031, 4131, 4157. — Hy. 4420. — Sp. 5831. — Le. 6632. — De. 7596. — E. 6684.
Lentinus. — M. 7047. — De. 7346.
Lenzites. — S. p. 1993. — T. 811.
Leonotis. — De. 7633.
Leonurus. — Sp. 5305. — M. 7284.
Leotia. — H. 3836.
Lepachis. — Sp. 6351.
Lepidium. — De. 7575.
Lepidophyllum. — Me. 6844.
Lepidoptera. — H. 4008.
Lepidosperma. — Sp. 6429. — De. 7334.
Leptodermis. — U. 1226, 1256.
Leptogium. — H. 3974.
Leptophya. — Ph. 1498.
Leptospermum. — Sp. 5466. — Le 6643. — Me. 6925. — St. 7949.
Leptosphæria. — H. 3881. — Sp. 6500.
Lepus. — S. p. 2000, 2022. — S. hd. 2851, 3056. — S. pp. 3355. — H. 3838. — D. 4696, 4597. — Sp. 5485, 5504, 5540. — N. 6552.
Lespedeza. — U. 1201. — Sp. 6107. — De. 7591.
Leucobryum. — My. 4802.
Leucojum. — S. d. 3561. — Sp. 4953.
Leucospermum. — P. 1613.
Leucothoe. — S. h. 2344.
Levisticum. — M. 7261.

Liatris. — U. 1346.
Libanotis. — S. pp. 3110.
Libocedrus. — S. p. 2107. — Sp. 6227.
Licania. — P. 1610.
Lichenes. — S. hd. 2781. — S. pd. 2967, 2972, 2973. — H. 3908, 3910, 3961. — D. 4752. — M. 7139.* — De. 7360, 7361. — T. 8007.
Lightfootia. — U. 1372.
Ligusticum. — U. 1386.
Ligustrum. — S. a. 1934. — S. h. 2441. — S. hd. 2954. — D. 4764. — Sp. 4946, 5137, 5950, 6031, 6083. — De. 7516. — T. 7975.
Liliaceæ. — U. 1218, 1391.
Lilium. — Me. 6963, 7027. — M. 7318, 7319.
Limosella. — U. 1209.
Linaria. — M. 7237. — Sp. 5317.
Lindera. — P. 1594. — Sp. 4981, 5702, 5845.
Linnæa. — Sp. 6284.
Linosyris. — U. 1341.
Linum. — U. 1214. — Ph. 1443. — Sp. 5287. — De. 7583.
Liparis. — Ph. 1499. — S. s. 3775.
Lippia. — U. 1264, 1375. — De. 7640.
Liquidambar. — S. a. 1917. — S. h. 2471. — Sp. 5796. — De. 7525. — De. 7735. — T. 8005.
Liriodendron. — S. hd. 2609, 2610, 2952, S. pd. 3001. — S. hp. 3383. — D. 4768. — Sp. 4866, 4867, 5842, 5098, 5099. — Le. 6569. — Me. 6741, 7004. — M. 7252.
Litsea. — S. h. 2365. — Do. 4124.
Livistonia. — De. 7471.
Loasa. — U. 1339.
Lobelia. — De. 7487, 7636.
Lolium. — S. hd. 2697. — S. hp. 3433. — S. d. 3600. — Sp. 5381, 5570, 6441.
Lomaria. — He. 4336.
Lonicera. — P. 1589. — S. a. 1965, 1972. — S. h. 2363. — S. h d. 1582. — 2583, 2584, 2934. — S. pd. 2991. — S. pp. 3183, 3184, 3315. — S. hp. 3401, 3402, 3499. S. s. 3742. — H. 3939. — Do. 4150. — Hy. 4387, 4398. — D. 4515. — Sp. 4935, 5125, 5127, 5697, 5738, 6016, 6080, 6088, 6204, 6279. — Me. 6982.
Lopadium. — D. 4705.
Loranthus. — Mi. 4215.
Lotus. — Sp. 5606. — M. 7262.
Lubinia. — Sp. 6388.
Ludwigia. — De. 7609.
Luhea. — P. 1781. — H. 3997. — Do. 4035. — T. 8140.
Lupinus. — S. a. 1897. — S. hd. 2715, 2957. — S. d. 3609. — H. 3872. — Sp. 5284, 5412, 5692.
Luzula. — U. 1392. — S. h. 2384. — S. pp. 3248. — S. hp. 3427.* — Do. 4090. — Sp. 6427, 6428. — Le. 6610.* — M. 7084. — De. 7385.
Lychnis. — S. 6318.
Lycium. — S. pd. 2981, 2982. — S. pp. 3116. — Do. 4148. — Sp. 5196, 6053. — De. 7719. T. 7985, 8010.
Lycoperdon. — M. 7125.
Lycopersicum. — Sp. 5042, 5312, 5313, 5991. — De. 7373, 7780.
Lycopodium. — S. hd. 2701, 2755, 2849. — S. pp. 3249. — Sp. 5388, 5786. — St. 7892.
Lycopus. — D. 4602. — Sp. 5038. — Le. 6584. — De. 7630.
Lygodesmia. — U. 1340.
Lyngbya. — Ph. 1467.
Lysimachia. — S. pp. 3106. — Sp. 5288. — Me. 6960. — De. 7635.
Lythropsis. — Us. 1190.
Lythrum. — S. hp. 3360. — L. 4278. Sp. 5337.

Maclura. — P. 1637. — S. a. 1841. — S. hd. 2650. — S. hp. 3414. — Mi. 4224. — Sp. 4973. — M. 7193. — De. 7801.
Macrochloa. — Sp. 5439.
Macrorrhynchus. — M. 7194.
Macrozamia. — S. a. 1940. — Sp. 5599.
Mæsa. — P. 1614.

Magnolia. — P. 1590. — S. a. 1955, 1960. — S. p. 2097. — S. h. 2343, 2447. — S. hd. 2767, 2837, 2899. — S. hp. 3468, 3482. — H. 3905, 3924. — Le. 6634. — Me. 6742. — M. 7152. De. 7785. — St. 7959. — T. 8055.
Mahonia. — S. d. 3698. Sp. 4864.
Majanthemum. — Sp. 5366.
Malachium. — M. 7202.
Malcolmia. — Sp. 5413.
Mallotus. — De. 7724.
Malpighiaceæ. — Do. 4058. — Sp. 5612.
Malus. — Sp. 4915, 4916, 5623, 5639, 5708, 5934, 6141. — M. 7095.
Malva. — P. 1573. — Sp. 5289, 6324. — De. 7864.
Malvaceæ. — P. 1760.
Mamillaria. — Sp. 5297.
Mangifera. — S. a. 1883. — S. hd. 2596.
Manihot. — M. 7316.
Marantaceæ. — U. 1390.
Marrubium. — Sp. 5307, 5912, 6111. — M. 7286.
Marumia. — Sp. 5872.
Matricaria. — P. 1733.
Matthiola. — S. pd. 2984. — S. hp. 3525. — Sp. 5259, 5260, 6466. — De. 7550.
Mauritia. — Me. 6872.
Maytenus. — U. 1322. — S. p. 2052, 2119, 2141. — S. hd. 2572, 2573, 2824. — S. pp. 3316. — H. 3980. — Do. 4153. — Sp. 4923, 5673, 5684, 5797, 6267, 6268. — E. 6698. — De. 7423. — St. 7940.
Medicago. — S. pp. 3135. — Sp. 5904. — Me. 6795, 6796. — De. 7593.
Megarrhiza. — S. hd. 2717, 2718.
Melaleuca. — S. h. 2346.
Melampyrum. — Le. 6582. — Me. 6896.
Melandrium. — S. pp. 3140.
Melastoma. — Sp. 6265, 6266.
Melastomaceæ. — P. 1740. — S. h. 2416. — Do. 4066, 4067. — Mi. 4193. — Hy. 4358. — Sp. 4984, 5552.
Melia. — S. a. 1937, 1956. — S. pp. 3346, 3353. — Sp. 4995. — De. 7675. 7676.
Melianthus. — S. hd. 2563. — Do. 4052. — Sp. 5513.
Melica. — S. pp. 3238.
Melilotus. — S. hd. 2501. — Sp. 6307, 6157. — De. 7594, 7595.
Meliola. — P. 1718, 1719, 1813, 1814, 1815. — H. 3906, 3958, 3960. — St. 7927, 7963, 7964.
Melittis. — Sp. 5040
Melodium. — Me. 6957.
Menispermum. — P. 1566. — S. a. 1876. — Do. 4063. — Sp. 5031, 5032. — E. 6683. — Me. 6851. — De. 7573.
Mentha. — D. 4602.
Mentzelia. — Sp. 5054, 6383.
Mercurialis. — H. 3902. — Sp. 5345, 5346.
Mesembryanthemum. — S. hp. 3368. — Sp. 6219, 6220.
Mespilus. — S. pd. 3024. — Sp. 5766, 5958. — Me. 6745, 6826.
Metrosideros. — Sp. 4920.
Microglæna. — D. 4705.
Microtis. — U. 1217.
Mikania. — P. 1708. — Sp. 6270. — De. 7624.
Milium. — Sp. 5539.
Mimosa. — S. d. 3060. — Do. 4033. — Sp. 5089. — M. 7074.
Mimulus. — S. pd. 3053. — Sp. 6398, 6480. — De. 7637.
Mitella. — Sp. 5045.
Mitracarpus. — U. 1211. — De. 7610.
Molinia. — S. hp. 3441. — Sp. 6010, 6172.
Mollugo. — Sp. 5051.
Monesia. — S. h. 2369.
Monetia. — Sp. 4933.
Monocotyledoneæ. — P. 1640. — S. p. 2037. — H. 3904. — De. 7768, 7819.
Moræa. — S. hd. 2669. — T. 8132.
Morus. — U. 1402. — S. a. 1849, 1891, 1892, 1902, 1917. — S. p. 2116. — S. hd. 2646, 2951. — S. pp. 3179 3314. — S. hp. 3509. — S. d. 3582, 3595. — S. s. 3746, 3747. — Hy. 4411. — Sp. 4974, 5222, 5223, 5224, 5406,

5458, 5480, 5481, 5590, 5591, 5721, 5722, 5737, 5821, 5966, 6209**, 6210, 6462. — E. 6697. — M. 7230. — T. 8121.
Mucor. — Ph. 1419.
Mühlenbeckia. — U. 1236. — Sp. 5204, 6495. — Me. 6877.
Mühlenbergia. — Us. 1166. — U. 1276. — S. hd. 2695.
Mulgedium. — S. h. 2327. — Sp. 6338.
Murraya. — P. 1737.
Mus. — M. 7068, 7153, 7208. — De. 7821. — St. 7926.
Musa. — S. p. 2099. — S. pp. 3200. — S. hp. 3420. — S. s. 3776. — Sp. 5778. — Me. 6811. — De. 7565.
Musca. — Ph. 1485. — H. 4007. — De. 7510.
Muscari. — Sp. 5561.
Musci. — Ph. 1439. — D. 4556, 4558, 4720. — De. 7509.
Mutilla. — H. 4012.
Mycena. — M. 7109.
Mycetophilis. — Ph. 1483.
Myginda. — S. hd. 2574. — S. d. 3664.
Myoporum. — Do. 4026. — Sp. 6264.
Myosotis. — U. 1250. — T. 8075.
Myrica. — Ph. 1427. — P. 1757. — S. a. 1856, 1886. — S. hd. 2888, 2953. — S. hp. 3384. — Do. 4113. — D. 4531. — Sp. 5184, 5185, 5868, 6139. — De. 7732, 7733.
Myricaria. — Sp. 5585, 5655. — Me. 6886.
Myrmecophaga. — Le. 6623.
Myrsine. — P. 1743, 1744. — P. 1825. — Do. 4065.
Myrsineæ. — Hy. 4355.
Myrtaceæ. — U. 1384. — P. 1553, 1576, 1742, 1816. — S. h. 2415. — S. s. 3772. — H. 3954, 4017. — Do. 4045, 4046, 4047. — Mi. 4190, 4214, 4216, 4224, 4229, 4232, 4235. — Sp. 5537, 5959, 6013, 6254. — Le. 6574, 6575, 6599, 6631, 6644. — Me. 6843, 6934. — De. 7695.
Myrtus. — S. pp. 3274. — Sp. 5841, 5957. — Le. 6647. — De. 7522.
Myxogasteres. — H. 3793.
Myxomyceteæ. — T. 8112.

Narcissus. — Sp. 2045, Sp. 6419, — T. 8087.
Nardus. S. pp, 3248.
Narthecium. — Us. 1183. — Sp. 5920.
Nectandra. — P. 1618. — He. 4325. — Le. 6593.
Nectria. — M. 7060, 7241.
Negundo. — S. p. 2064. — Sp. 4944, 5168, 5500. — Me. 6753. — De. 7539. 7670.
Nelumbium. — Sp. 5294, 5598.
Nemopanthe. — P. 1560, S. hd. 2830.
Nepenthes. — Sp. 5338.
Nepeta. — Sp. 6378.
Nephroma. — D. 4711.
Nerium. — Mi. 4243. — Sp. 5423. — De. 7494, 7832.
Nipa. — S. hd. 2817.
Nitella. — Ph. 1462.
Nostoc. D. 4556.
Nuphar. — Sp. 5000, 5001.
Nyctagineæ. — Do. 4075.
Nymphæa. — Us. 1186.
Nyssa. — U. 1363. L. 4298, 4319.

Obione. — Sp. 5340.
Ochraceæ. — Hy. 4341. — Sp. 5205.
Ochra. — S. s. 3737.
Ochrolechia. — D. 4701, 4705.
Ochroma. — Sp. 5882.
Odynerus. — H. 4006.
Œdogonium. — Ph. 1510, 1531, 1532, 1537.
Œnothera. — S. p. 1981, — S. hd. 2541. 2764, — Sp. 5336.
Oidium. — Sp. 5528. 3529.
Olea. — P. 1674, 1699, 1805. — S. p. 2114, 2187. — S. h. 2477. S. hd. 2632, 2748. — S. pd. 3042. — S. hp. 3505, 3506. — S. d. 3655. — Hy. 4353, 4425. — Sp. 4945. 5231, 5132, 5133, 5134. — M. 7220. — De. 7461.
Olearia. — U. 1385. — P. 1679.
Olyra. — Me. 7029.

Oncidium. — M. 7248.
Onobrychis. — Sp. 5605. — T. 8081.
Ononis. — S. h. 2407.
Opegrapha. — De. 7361.
Ophioglossum. — De. 7569.
Ophiopogon. — Sp. 5562. 6421. — De. 7480.
Oplismenus. — Do. 4093, 4164. — Le. 6651.
Opuntia. — S. p. 2058, 2098. — S. hd. 2649, 2743. — Do. 4162. — Sp. 6997. — Me. 6727. 6727, 6728.
Orchideæ. — U. 1391. — Ph. 1541. — S. h. 2446. — S. hd. 2820. — Me. 6816, 6817, 6964. — De. 7506.
Origanum. — S. hp. 3367.
Ormocarpum. — Sp. 5023.
Orobanche. — S. hd. 2922. — Sp. 5316,
Orobus. S. hd. 2497.
Orontium. — S. h. 2371.
Oryza. — Us. 1179. — S. pp. 3230. — S. hp. 3435. — Sp. 5375, 5376, 5377. 5522. 5783. — M. 7305. — De. 7559.
Osmorrhiza. — S. d. 3566. — Sp. 6337. — De. 7603.
Osteospermum. — Sp. 5961.
Ostrya. — S. h. 2444. — S. pd. 3096. — Sp. 5644. — Me. 6861.
Osyris. — H. 3968. — Sp. 5883.
Ovis. — S. pp. 3338. — H. 3797.
Oxalis. — Us. 1158. — Do. 4074. — Sp. 6323. — Me. 7013.
Oxycantha. — S. d. 3661.
Oxybaphus. — Sp. 6000. — De. 7659.
Oxyria. — S. pp. 3132. — Sp. 6469. — M. 7296. 7315.
Oxyris. — P. 1697. — Do. 4126.
Oxytropsis. — Sp. 5986, 6511.
Ozonium. — D. 4740.

Pachypleurum. — S. hd. 2537.
Padus. — S. hp. 3462.
Pæonia. — Sp. 5009. 5010, 5011.
Paliurus. — Sp. 4925, 4926, 6199. — Me. 6724.
Palmæ. — P. 1731. — S. h. 2419. — Do. 4027. — Mi. 4181, 4182. — My. 4859. — Sp. 5066, 5349, 5350, 5351. 5616, 5681, 5918. — E. 6705. — De. 7420. 7553. 7868.
Palmetto. — De. 7555.
Panax. — U. 1237. — S. hd. 2602. — Le. 6576.
Pancratium. — De. 7742.
Pandanus. — S. h. 2420. — H. 3889.
Pandorina. — Ph. 1515.
Paniceæ. — Sp. 5622.
Panicum. Us. 1167, 1177. — S. hd. 2682, 2847. — S. hp. 3436, 3439. — H. 3999. — Do. 4102. — Sp. 5571, 5572. 6021, 6444. — E. 6719. — De. 7749.
Papaver. — Us. 1200. — S. h. 2405. — S. hd. 2487. — Sp. 5975. — De. 7865.
Parietaria. — Sp. 5997. 6051. — 6494.
Paris. — De. 7741.
Parkinsonia. — Sp. 4890.
Parmelia. — S. h. 2435. — S. hd. 2790. — H. 3908, 3910. — D. 4709, 4755. 4757. — Sp. 5389, 5789. — M. 7139*, 7243. — De 7361. 7418.
Paronychia. — S. h. 2337. — S. 3614.
Paspalum. — U. 1397. — Do. 4093, 4097. — Me. 6923.
Passerina. — Me. 6898.
Passiflora. — S. pd. 2983. — H. 3804. Sp. 5507, 6518. — De. 7478, 7699. St. 7948. — T. 8074.
Pastinaca. — P. 1734. — S. s, 3728. — E. 6709.
Paulownia. — Sp. 5867. — Me. 7037.
Patrobus. — La. 4454.
Pavetta. — P. 1673.
Pavia. — Sp. 4898.
Paxillus. — M. 7141.
Pedicularis. — U. 1286. — S. pp. 3109. — Sp. 5318.
Peganum. — P. 1574.
Pelargonium. — Sp. 5905. — Me. 6764.
Peltandra. — Me. 6814. — Me. 6965.
Peltidea. — H. 3820.
Peltigera. — S. h. 2448. — S. s. 3762. D. 4566. 4567. 4693. 4694. — N. 6559. — M. 7215.
Peniophora. — De. 7789.

Pennisetum. — H. 3998.
Pentanisia. — P. 1725.
Pentastemon. — U. 1329. — Hy. 4352. — Sp. 5035.
Penthorus. — De. 7599.
Peridermium. — T. 8015.
Periploca. — S. hd. 2586. — Sp. 5194, 5880.
Perisporiaceæ. — P. 1816.
Persica. — Sp. 5461.
Pernettia. — S. hd. 2611, 2933. — S. pp. 3274. — S. hp. 3498, 3511. — L. 4272. — Hy. 4386, 4431. — Le. 6598. — M. 7325. — De. 7541.
Persea. — P. 1624, 1625, 1663. — Sp. 4980.
Persica. — S. a. 1908. — S. hd. 2809. — S. pd. 2997. — S. hp. 3405. — L. 4307. — Sp. 5578. 6229. 6531. — M. 7079.* — De. 7693, 7694. — St. 7933.
Petasites. — Sp. 5030, 5992, 6153. — M. 7273.
Pertusaria. — D. 4678, 4701.
Petrocallis. — S. hd. 2505.
Petrophora. — Ph. 1475, 1481.
Petroselinum. — S. d. 3558.
Petunia. — M. 7294.
Peucedanum. — P. 1683. — Sp. 5326, 5327.
Peziza. — M. 7105, 7211.* 7233.
Phaca. — S. d. 3564. — Do. 4132.
Phalaris. — U. 1274, 1291. — S. pp. 3248. — Sp. 5782, 6434. — De. 7507.
Pharus. — My. 4824.
Phaseolus. — Ph. 1432. — Mi. 4244. — Sp. 5283, 5527, 5985. — N. 6557. — E. 6660. — Me. 6798. — M. 7310.
Phegopteris. — Me. 6821.
Philadelphus. — S. d. 3550, 3708, 3712. — Do. 4125. — Sp. 4876, 5144, 5145, 5848.
Philesia. — L. 4270. — Sp. 5365.
Phillyrea. — D. 4645. — Sp. 5949, 6276. — Me. 6762.
Philodendron. — S. hd. 2676. — Sp. 6423.
Phleum. — S. h. 2431.
Phlox. — S. hd. 2546. — Sp. 5265, 5303, 5546, 6045, 6109, 6394.
Phlyctis. — S. pd. 2978. — D. 4702.
Phœnix. — L. 4275. — Sp. 5252, 5353, 5354, 5440, 6116, 6117. — Me. 6809. — M. 7121. — De. 7504.
Phomatospora. — H. 3884. — M. 7320.
Phoradendron. — S. p. d. 3094.
Phormium. — S. p. 2086. — S. pp. 3229. — S. hp. 3434. — D. 4581.
Photinia. — Sp. 5838. — Me. 6908. — De. 7498.
Phragmitis. — U. 1290. — S. pp. 3232, 3233. — S. hp. 3440. — Sp. 5385, 5618, 5921, 6123, 6124, 6167, 6168, 6169, 6223, 6439, 6530. — De. 7481, 7482, 7521. — T. 8006.
Phryganea. — Ph. 1494.
Phryganeidæ. — Ph. 1490.
Phryma. — Sp. 6377.
Phyllactinia. — Sp. 5531.
Phyllanthus. — M. 7122.
Physalis. — S. hd. 2925. — S. pp. 3193. — De. 7653.
Physcia. — H. 3909, 3911, 3914. — D. 4681, 4755. — M. 7139*, 7215. — De. 7361.
Physma. — S. hp. 3442. — S. d. 3581.
Physostegia. — Sp. 6400.
Phyteuma. — M. 7313.
Phytolacca. — S. pp. 3115. — Sp. 5043.
Picea. — S. hp. 3515.
Picris. — M. 7276.
Pilocarpus. — Mi. 4234. — Sp. 4985, 5817, 5818.
Pilophorus. — D. 4704.
Pimpinella. — Us. 1196. — Me. 7015.
Pinguicula. — Us. 1157.
Pinus. — U. 1356, 1359, 1360. — Ph. 1466. — P. 1638, 1724. — S. p. 1979, 2068, 2072. — S. hd. 2656, 2759, 2810, 2811, 2862. — S. pd. 3005, 3065. — S. pp. 3270, 3300, 3308. — S. hp. 3455, 3475, 3483, 3516, 3517. — S. d. 3678. — H. 3809, 3991. — Mi. 4185, 4197. — Hy. 4349, 4361, 4419, 4430, 4440,

— D. 4464, 4518, 4520, 4532, 4553, 4555, 4556, 4613, 4625*, 4640, 4657, 4658, 4661, 4742, 4745, 4746, 4747, 4765, 4766, 4767, 4768, 4769, 4770, 4771, 4774, 4776, 4797. — My. 4825. — Sp. 5235, 5236, 5240, 5244, 5433, 5468, 5499, 5725, 5743, 5554, 6102, 6150, 6293, 6520, 6528. — N. 6538, 6539. — Le. 6577, 6578, 6579, 6633, 6658, 6721. — Me. 6910, 6952. — M. 7087, 7148, 7183, 7184, 7246. — De. 7338, 7352, 7353, 7354, 7387, 7397, 7399, 7433, 7534, 7543, 7807, 7824. — St. 7877, 7908, 7930, 7951. — T. 7997, 8026, 8029, 8035, 8038, 8049, 8054, 8115, 8126.

Piperaceæ. — P. 1767, 1768.

Piptatherum. — S. pp. 3227.

Pircunia. — P. 1603.

Pirola. — S. h. 2322. — S. hd. 2488, 2553. — Sp. 5048, 6019, 6373,. — Le. 6581. — De. 7400.

Pirus. — U. 1297. — P. 1601. — S. p. 2051. — S. h. 2306, 2349, 2352, 2397. — S. hd. 2740, 2741. — D. 4766. — Sp. 4913, 4914, 5623, 5624, 5639, 5708, 5709, 5801, 5802, 6073, 6186, 6537. — Me. 6824. — M. 7085, 7096, 7158, 7190, 7250, 7307. — De. 7691. — St. 7945.

Pisonia. — P. 1620.

Pistacia. — S. a. 1943. — S. p. 2112. — S. hd. 2599, 2600, 2938. — S. pp. 3273. — Sp. 4899, 5152, 5871, 5939, 6234.

Pisum. — S. d 3615. — Sp. 5803. — Me. 6846, 6880. — M. 7210. — De. 7485.

Pitcairnia. — P. 1801. — Sp. 6133.

Pittosporum. — P. 1619. — S. hd. 2598. — Sp. 5862.

Placodium. — S. hd. 2756. 2757, 2758. S. pd. 2969. — D. 4667, 4680, 4682, 4684.

Planera, — Sp. 6097.

Plantago. — P. 1684. — S. hd. 2488. — S. d. 3643. — L. 4312. — Sp. 5528. — M. 7295, 7312.

Platanus. — P. 1564, 1569. — S. a. 1901, 1971. — S. p. 2293. — S. h. 2341, 2394. — S. hd. 2634, 2884. — S. pp. 3161, 3162, 3180. — S. hp. 3399. — S. d. 3692, 3716. — Do. 4160. — Mi. 4211. — D. 4571. — Sp. 5225, 5226, 5668, 5889, 6093. 6147. — Le. 6636. — E. 6675. — De. 7443. — De. 7734.

Platynus. — La. 4447, 4448, 4453, 4455, 4459. 4463.

Platysma. — D. 4662.

Plectranthus. — U. 1307, 1326.

Pleomassaria. — M. 7050.

Pleroma. — P. 1797. — Sp. 4983. — E. 6716.

Pleurogyne. — S. hd. 2488.

Pleurotus. — H. 3900.

Pleurophyllum. — De. 7826.

Plumbago. — S. pp. 3153. — Sp. 5286.

Plusia. — Ph. 1476.

Poa. — S. hd. 2753. — S. pd. 3011. — S. hp. 3437. — S. d. 3579, 3606, 3618. — He. 4330. — Sp. 5378. 5569, 5781. 6128. 6435, 6437. — E. 6690, 6720. — M. 7304.

Podocarpus. — S. hd. 2652. — C. 4251, 4252.

Podophyllum. — Sp. 5293. — Me. 6987.

Podosporium. — De. 7412.

Poinciana. — T. 7995, 8106.

Polemonium. — Do. 4073. — Sp. 5308, 5309, 6371, 6494.

Pollinia. — Us. 1174. — U. 1282.

Polybia. — H. 4070.

Polyblastia. — S. pd. 2966.

Polygala. — Sp. 5262, 5263, 5264.. — Me. 6799.

Polygonatum. — S. h. 2373. — Sp. 6499. — Le. 6622.

Polygonum. Us. 1159. — U. 1270. — S. p. 2121. — S. h. 2335. — H. 3789. — L. 4277. — Sp. 5060. 5061, 5341, 5445, 6014, 6177, 6409. — Le. 6586, 6621. — M. 7195. — De. 7487. — T. 8080.

Polypodium. — S. h. 2381.
Polyporus. — S. hp. 3541. — H. 3827, 3844, 3921, 3922, 3940. — D. 4614. — My. 4814. — Sp. 5390. — M. 7126, 7206. — De. 7770. — St. 7903.
Polystichum. — D. 4739. — De. 7344, 7381. 7389.
Polystictus. — M. 7189. — De. 7346, 7363.
Polytænia. — De. 7602.
Polytrichum. — S. hd. 2801. — Sp. 6446. — De. 7345, 7856.
Pontederia. — U. 1215. — S. hd. 2669.
Populus. — P. 1556. — S. a. 1840. 1874, 1882, 1924, 1935, 1964. — S. p. 2042, 2110. 2209, 2223, 2231, 2279. — S. h. 2304, 2305, 2463. — S. hd. 2638, 2639, 2882, 2883. — S. pd. 2986, 3035, 3036, 3079. — S. pp. 3268, 3286, 3287, 3305, 3350. — S. hp. 3411., 3477, 3521, 3535. — S. d. 3639, 3651, 3654. 3668, 3701. — H. 3896, 3897. — Do. 4071. — L. 4263, 4267, 4323. — D. 4633, 4653, 4717, 4725, 4763, 4766, — My. 4827. — Sp. 4969. — Sp. 5210, 5211, 5212, 5497, 5594, 5593, 5773, 5792, 5806, 5890, 5634, 5642, 5666, 5965, 6099, 6100, 6286, 6287, 6288, 6505. — N. 6540. — Me. 6781, 6782, 6834, 6889, 6894, 6996, 7043. — M. 7135. — De. 7337, 7349. 7502, 7530, 7728, 7794. — St. 7899. — T. 7980, 8001, 8021.
Porocyphus. — S. hd. 3783.
Potamogeton, — Sp. 5070.
Potentilla. U. 1298. — Ph. 1502. — S. h. 2325. — S. h. 2403. — S. hd. 2533. — S. hp. 3447. — Mi. 4199. — Le. 6613. — Sp. 6310. 6311. — Me. 6897. 6921, 6959.
Poterium. — S. pp. 3123, 3124. — S. d. 3589. 3590. — Sp. 5285, 6217, 6471,
Pothos. — Sp. 5361, 5538. — Le. 6642. M. 7216.
Pouzolsia. — U. 1324.
Pozoa. — U. 1213.
Prasiola. — S. h. 2383.
Prenanthes. — Sp. 6340. — De. 7611.
Primula. — Ph. 1438. — S. pp. 3126. — S. hp. 3373. — Sp. 5907, 5969, 6389. — E. 6659. — De. 7634.
Prinos. — S. hd. 2607. — Sp. 4930.
Prostanthera. — Sp. 5752.
Protea. — S. hd. 2749. — De. 7463.
Proteaceæ. — Sp. 4979.
Protium. — St. 7886.
Prunus. — P. 1596. — S. a. 1843, 1873, 1919. — S. hd. 2620, 2625, 2708, 2803, 2904. — S. pp. 3102, 3278. — S. hp. 3387, 3540. — S. d. 3551, 3659, 3689, 3699, 3700, 3705. — Mi. 4209, 4242. — L. 4309. — D. 4507, 4648, 4692, 4734, 4736, 4737, 4768. — Sp. 4909, 4910, 5104, 5105, 5106, 5107, 5108, 5109, 5421, 5447, 5836, 6076, 6248, 6249, 6250, 6252. — E. 6695. — Me. 6746, 6747, 6909, 6933, 7003. — M. 7098, 7239. — De. 7368, 7499, 7526, 7692, 7784. — T. 7996.
Psamma. — S. h. 2425. — S. pp. 3225, 3256. — S. d. 3619. — S. s. 3766, 3767. — Mi. 4205. — L. 4254. — D. 4524. — Sp. 6010.
Pseudacorus. — Sp. 5359.
Psidium. — T. 7974.
Psora. — S. hd. 2789. — S. pd. 2963.
Psoralea. — U. 1202. — Sp. 5826, 6241, 6519. — De. 7684.
Psoroma. — S. hd. 2778.
Psychotria. — Me. 6945.
Ptelea. — S. pd. 3072. — Sp. 6233.
Pteris. — S. h. 2393. — S. hd. 2700. — S. pd. 3019. — S. hp. 3465. — Do. 4104, 4105, 4136. — Hy. 4394. — Sp. 6447. — Le. 6657. — Me. 6990, 6820, 6903. — T. 8025.
Ptylodactyla. — Ph. 1475.
Punica. — S. a. 1838. — S. pp. 3276. — S. s. 3743. — D. 4630. — Sp. 5271, 5446, 5474, 5686, 6078. — Le. 6607. — T. 8100, 8108.
Pyrethrum. — Sp. 5993.

Quebrachia. — S. p. 2234. — Do. 4156. — Me. 6895.

Quercus. — P. 1561, 1568, 1598, 1601, 1666, 1667, 1668, 1669, 1670, 1671, 1694, 1749. — S. a. 1835, 1844, 1895, 1896, 1913, 1915, 1922, 1944, 1946. — S. p. 2029, 2043, 2063, 2078, 2115, 2134, 2222, 2236,. — S. h. 2347, 2348, 2413, 2414, 2475. — S. hd. 2640, 2641, 2642, 2731, 2732, 2733, 2818, 2836, 2876, 2877, 2948. — S. pd. 2988, 2992, 3004, 3031, 3032, 3033, 3066, 3067, 3075, 3087. — S. pp. 3282, 3305, 3351. — S. hp. 3494, 3531, 3533. 3537, 3547, 3548. — S. d. 3636, 3673, 3679, 3686. — S. s. 3756, 3783, 3784. — H. 3810, 3839, 3938, 3941, 3953, 3965, 3995. — Do. 4149, 4152. — Mi. 4198. — L. 4258, 4262, 4264, 4285, 4289, 4301, 4303. — Hy. 4332, 4360, 4371, 4383, 4397, 4399, 4402. — D. 4507, 4535, 4626, 4627, 4637, 4673, 4686, 4687, 4699, 4717, 4722, 4724, 4727, 4739, 4745, 4746, 4747, 4750, 4762, 4768, 4770, 4773, 4778. — My. 4812, 4816, 4822, 4825. — Sp. 4963, 4964, 4965, 4966, 4967, 5227, 5228, 5229, 5230, 5392, 5451, 5486, 5511, 5589, 5629, 5630, 5631, 5669, 5670, 5671, 5717, 5798, 5799, 5884, 6026, 6143, 6144, 6209*, 6226, 6292, 6534. — Le. 6564. — E. 6665, 6666, 6674, 6695. — Me. 6774, 6775, 6776, 6777, 6835, 6887, 6906, 6918, 6949, 6950, 6977, 6978, 6979, 6980, 6985, 6994. — M. 7089, 7131, 7170, 7175, 7221, 7246, 7326, 7446, 7448, 7503, 7532. — De. 7792, 7793, 7799, 7831. — St. 7835, 7932. — T. 7999, 8039, 8143.

Randia. — P. 1704.

Ranunculus. — S. hd. 2479, 2480, 2488. — S. pp. 3120, 3121. — S. hp. 3363. — Sp. 5547, 5974, 6469. — M. 7071, 7099, 7196.

Raphanus. — De. 7576.

Rapistrum. — S. hd. 2503.

Reseda. — S. hd. 2514. — S. pp. 3123. S. s. 3734. — S. 6048. — De. 7331.

Retama. — Sp. 6182.

Retinospora. — S. hd. 2655.

Rhagadiolus. — S. s. 3724.

Rhamnaceæ. — Me. 6723. — T. 8060.

Rhamnus. — U. 1323. — P. 1819. — S. a. 1921, 1954. — S. hd. 2896. — S. pp. 3311. — S. d. 3653, 3667. — Do. 4023. — D. 4768, 4775. — Sp. 4927, 4928. — Sp. 5161, 5716, 6238. Me. 6939. — T. 7972.

Rhea. — S. p. 2014. — S. pp. 3327.

Rheum. — Sp. 5062, 5063, 5064, 5342. — De. 7667.

Rhexia. — De. 7698.

Rhinanthus. — Sp. 6479.* — Me. 6803.

Rhizocarpon. — S. pd. 2963, 2964, 2965.

Rhododendrum. — U. 1310. — P. 1612, 1756. — S. h. 2354, 2418, 2453. — S. hd. 2617. — S. pd. 3028. — S. pp. 3171, 3271. — Hy. 4337, 4365. — D. 4532, 4688, 4698, 4768, 4775. — Sp. 4951, 4952, 5148, 5149, 5769, 6032, 6089, 6092.

Rhus. — S. p. 2130. — S. hd. 2605, 2775, 2921, 2925. — S. d. 3675. — Do. 4177. — Mi. 4186. — L. 4265. — H. 4441. — D. 4768. — Sp. 5153, 5656, 5705, 6136, 6137, 6257, 6258, 6527. — Me. 6882, 6883. — De. 7673. 7674.

Rhynchonema. — Ph. 1504.

Rhynchosia. — St. 7946.

Rhynchospora. — Sp. 6008. — E. 6689. — De. 7746.

Rhynchostegium. — M. 7240.

Ribes. — P. 1522. — S. a. 1864. — S. h. 2391. — S. hd. 2565, 2865, 2946. — S. pp. 3099, 3177, 3274, 3325. — S. hp. 3386 — S. d. 3669, 3717. — Do. 4172. — D. 4768. — Sp. 4870, 4871, 5523, 5600, 5641, 5657, 5715, 5755, 5850, 5851, 6040, 6193, 6194. Le. 6639. — E. 6699. — De. 7689, 7690. — De. 7814.

Riccia. — S. hd. 2854.
Richardia. — De. 7738.
Ricinus. — S. h. 2326.
Rinodina. — S. pd. 2973. — D. 4705.
Rivea. — M. 7091.
Robinia. — S. a. 1903, 1914. — S. hd. 2939. — H. 3974. — D. 4503, 4639. 4717. — Sp. 4882, 4883, 5580, 6071, 6185. — Me. 6751, 6752, 6827. — St. 7931. — T. 8062.
Rosa. — U. 1235, 1268. — S. a. 1832, 1851. — S. p. 1977. — S. h. 2350, 2399. — S. hd. 2624, 2626, 2744, 2745, 2943, 2945. — S. pd. 3030. — S. pp. 3175. — S. hp. 3388, 3396, 3454. — S. d. 3592. — L. 4299. — Hy. 4348. — D. 4507, 4532, 4560. — Sp. 4912. — Sp. 5638, 5832, 5833, 6072, 6187. N. 6548. — Le. 6670. — Me. 6885, 6929, 6930, 6931, 6968, 6969, 7249. — De. 7757, 7800. — T. 7970.
Roscoëa. — U. 1272.
Rosmarinus. — Sp. 5864. — S. d. 3642.
Rostkovia. — S. p. 2104. — S. hd. 2679. — H. 3840 — Mi. 4204. — He. 4329. — Hy. 4434, 4435. — Sp. 5076. Le. 6587, 6588.
Rotifer. — Ph. 1511.
Royena. — U. 1337.
Rubia. — U. 1266. — S. hd. 2924.
Rubiaceæ. — U. 1376. — S. hd. 2710. — H. 4018. — Do. 4046.
Rubus. — U. 1299, 1300, 1302, 1382, 1383. — P. 1627, 1672, 1759, 1741. — S. a. 1945. — S. h. 2318, 2319, 2352, 2443. — S. hd. 2623, 2765, 2766. — S. pd. 2998. — S. pp. 3176, 3277. — S. hp. 3389, 3489. — L. 4277. — Hy. 4404, 4423. — D. 4532. — Sp. 4912*, 4917, 4918, 5405, 5534, 5535, 5650, 5840, 6080, 6454, 6455. — Me. 6743, 6744, 6967, 7002. — De. 7455, 7835, 7871. — T. 7991, 8067.
Rudbeckia. — Sp. 5273, 6355. — De. 7617.
Rumex. — U. 1279, 1290. — S. hd. 2926. — S. pp. 3122. — S. d. 3629. — D. 4543. — Sp. 6003, 6406, 6407. — M. 7297.
Ruprechtia. — Do. 4069. — Le. 6648.
Ruscus. — S. p. 2087. — S. pp. 3204, 3296. — Sp. 5071, 5367. — Me. 6871.
Ruta. — S. d. 3565, 3697. — Sp. 6479. — T. 8077.
Rutaceæ. — P. 1763. — Le. 6624, 6626.

Sabal. — P. 1641. — S. a. 1967. — S. p. 2019, 2088, 2090, 2091, 2100. — S. h. 2370. — S. hd. 2660, 2661, 2845. — S. pd. 3006. — S. pp. 3212. — S. s. 3758, 3773. — Sp. 5065, 6115, 6497. — E. 6688. — De. 7554.
Sabbatia. — De. 7650.
Saccharum. — P. 1599. — Sp. 2092. — S. h. 2426, 2427. — Sp. 5520 — De. 7401, 7752. — T. 8130.
Sagina. — Sp. 6316.
Sagittaria. — Sp. 5075.
Salacia. — U. 1373.
Salicornia. — Ph. 1542. — S. d. 3613.
Salix. — U. 1225. — P. 1701. — S. a. 1857, 1888, 1912, 1933, 1966. — S. p. 1986, 2030, 2036, 2039, 2096, 2111, 2128, 2209. — S. h. 2395, 2454. — S. hd. 2738, 2739, 2807, 2871, 2874, 2878, 2936. — S. pd. 3037, 3071, 3090. — S. pp. 3289, 3290, 3291, 3312, 3325. — S. hp. 3355, 3461, 3507, 3508, 3532. — S. d. 3630, 3648, 3649, 3658, 3659, 3663. — S. s. 3749, 3769. — L. 4255, 4259, 4260, 4286, 4287, 4294, 4306, 4310, 4317, 4323. — Hy. 4370, 4374, 4396, 4408. — D. 4516, 4674, 4717. — My. 4810. — Sp. 4968, 5208, 5209, 5399, 5558, 5632, 5664, 5665, 5719, 5774, 5775, 5793, 5886, 5887, 5888, 5926, 5967, 5968, 6289, 6290. — E. 6687, 6693. — Me. 6833, 6863, 6890, 6891, 6892, 6893, 6948, 6991. — M. 7238. — De. 7351, 7369, 7435, 7440, 7727, 7813. — St. 7910, 7954. — T. 8027, 8131.
Salvadora. — P. 1678. — Do. 4123.
Salsola. — S. pp. 3131. — S. hp. 3371.

Salvia. — Ph. 1444. — S. pp. 3155. — S. s. 3733. — Sp. 5302, 5751, 6213, 7376.
Sambucus. — S. a. 1938. — S. p. 2059. — S. hd. 2555, 2914. — S. hp. 3366, 3394, 3456, 3502, 3503, 3542. — S. d. 3688. — S. s. 3750, 3751, 3777, 3785. — H. 3895. — L. 4284, 4302, 4308. — D. 4700. — Sp. 5121, 5122, 5467, 5767, 5768, 5814, 5858, 5948, 6030, 6203. — De. 7454, 7535, 7705, 7706. — St. 7939. — T. 8068, 8124.
Sanguinaria. — Sp. 5002. — Me. 7011.
Sanicula. — Sp. 5014, 6329.
Santolina. — S. s. 3725.
Sapindaceae. — P. 1702, 1812. — S. hd. 2591, 2592, 2593, 2594. — S. hp. 3478. — H. 3887, 3957. — Do. 4050, 4051. — Mi. 4189. — Sp. 5512, 5964. 6179. — Le. 6650. — Me. 6770. — M. 7309. — T. 8061.
Saponaria. — Sp. 6472. — Me. 7010.
Sapotaceae. — P. 1631, 1632. — Do. 4068. — He. 4332. — Sp. 5963. — T. 8122.
Sapromyza. — Ph. 1487.
Sarcobatus. — S. d. 3646. — Sp. 6114.
Sarothamnus. — S. p. 1998. — S. hd. 2746, 2950. — S. pd. 3026. — S. pp. 3171. — Mi. 4228. — L. 4295. — Sp. 6449. — Me. 6750, 6928, 7031. — T. 8064.
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*) Sincere fateor in variorum Sylloges voluminum indicibus, nomina v. synonyma fungorum nonnulla fortuito omissa esse et alia synonyma obsoletiora in ipso textu brevitatis causa neglecta esse; quo factum est ut et diagnoses ipsæ omissæ a quibusdam mycologis immerito considerentur. Quam ob rem studiosos enixe rogo velint et suis textus locis, præter indicem, species diligenter perquirere et «Nomenclatores» Hoffmanni et Streinzii ad synonyma comparanda non negligere. Quibus peractis investigationibus, pleræque species reperientur quæ a cl. Cooke in Grevillea et quæ ab amicis multis in litt., omissa putabantur. Ut unum tradam exemplum, in Grev. XX, pag. 22, ut species in Sylloge omissæ censentur: I. *Colletotrichum microspermum*, II. *Zasmidium cellare*, III. *Alytosporinm fulvum*, IV. *A. croceum*, V. *A. pteridicola*. Sed I. adest in vol. IV, p. 736 et in ejus indice p. 841, II. est mycelium, III. est *Botrytis fulva*, cfr. vol IV, p. 123, IV. est *Sporotrichum croceum*, cfr. vol IV, p. 105, V. in nullo opere Schweinitziano occurrit. Quocumque modo, mycologi, qui additiones abtulerunt et in primis cl. Cooke, qui earum plurimas edidit v. communicavit, maxime de scientia mycologica meriti sunt.

Fatendum quoque est menda typographica, errores v. omissiones citationum aliaque errata leviora in toto opere eheu nimia irrepsisse, quorum nonnulla mycologi præclari et potissimum ill. Oudemans detexerunt et benevole per litt. communicaverunt. Sed cum ea a quovis mycologo sint, ut spero, sat facile recognoscenda et corrigenda, veniam exposco et ingratum errorum censum prætermitto.

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*). Ob homonymam p. 103, hæc *Ph. advenula* Sacc. dicatur.

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ambiens (Hendersonia). 318.
ambiens (Otthia). I. 753.
ambiens (Sphærella). I. 635.
ambiens (Valsa). I. 451.
ambigua (Calosphæria). I. 447.

ambigua (Calospora). I. 872.
ambigua (Hendersonia). II. 319.
ambigua (Isaria). II. 689.
ambigua (Hymenochæte). I. 230.
ambigua (Leptosphæria var.). I. 770.
ambigua (Meliola). I. 424.
ambigua (Metasphæria). I. 827.
ambigua (Pyrenophora). I. 896.
ambiguella (Phoma). II. 169.
ambiguum (Authostoma). I. 516.
ambiguum (Coryneum var.). II. 483.
ambiguum (Melanomma). I. 809.
ambiguus (Irpex). I. 214.
ambiguus (Mucor). I. 335
ambiguus (Xylomites). I. 800.
amblystoma (Rosellinia). I 498.
amboinensis (Puccinia). I. 303.
Amelanchieris (Aposphæria). II. 207.
Amelanchieris (Cytospora var.). II. 244.
Amelanchieris (Otthia). I. 752.
Amelanchieris (Phoma). II. 142.
Ameliæ (Clitocybe var.). I. 20.
amentorum (*Taphrina*). II. 69.
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americana (Fracchiæa). I. 446.
americana (Isaria var.). II. 688.
americana (Stella). I. 273.
amethystina (Bovista). I. 275.
amethystina (Clavaria). I. 248.
Ammonis (Gyromyces). II. 808.
ammophila (Anthostomella). I. 513.
ammophila (Chitonospora). I. 797.
ammophila (Darluca). II. 311.
Ammophilæ (Diplodina). II. 316.
Ammophilæ (Leptosphæria). I. 770.
Ammophilæ (*Leptosphæria*). I. 796.
Ammophilæ (Phoma). I. 186.
ammophilum (Schizostoma). I. 1074
amœna (Solenia). I. 207.
amœnum (Gloeosporium). II. 447.
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Amomi (Pisomyxa). I. 374.
amorpha (Fenestella). I. 922.
Amorphæ (Cucurbitaria). I. 919.
ampelinum (Colletotrichum). II. 470.
ampelinum (Verticillium). II. 545.
ampelocarpa (Phoma). II. 152.
Ampelodesmi (Fusarium). II. 726.
ampelophaga (Briosia). I. 698.
ampelophagum (Illosporium). II. 710.
ampelophilum (Endoconidium). II. 709.
ampelophlœum (Coniothecium). II. 668.
Ampelopsidis (Cytospora). II. 243.
Ampelopsidis (Cryptosporella). I. 610.
Ampelopsidis (Diplodia). II. 280.
Ampelopsidis (Macrophoma). II. 189.
Ampelopsidis (Septogloeum). II. 496.
amphigena (Phyllachora). I. 1008.
amphirhytes (Stereum). II. 225.
Amphisphæria (Melanopsamma). I. 685.
amphisphærioides (Diplodia). II. 285.
amphitricha (Meliola). I. 417.
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amplispora (Pleospora). I. 890.
amplisporum (Anthostoma). I. 522.
ampullifera (Meliola). I. 429.
ampulligera (Morenoëlla). I. 1095.
ampulligera (Pseudolizonia). I. 683.
ampullipeda (Asterina). I. 382.
Ampullula (Chætophoma?). II. 217.
ampullulipedum (Leptothyrium). II. 417.
Amsoniæ (Uredo). I. 330.
Amygdali (Dothiorella). II. 229.
Amygdali (Sphærites). II. 752.
amygdalina (Cytospora var.). II. 244.
amygdalina (Gnomonia). I. 672.
amygdalina (Nectria var.). I. 956.
amygdalinum (Microthyrium). I. 1057.
Anagallidis (Septoria). II. 376.
analoga (Sphærella). I. 629.
anastomosans (Arthothelium). I. 79.
anastomosans (Meliola). I. 424.
anastomosans (Panus). I. 76.
anceps (Amphisphæria). I. 742.
anceps (Anthostoma). I. 522.
anceps (Cœlosphæria). I. 443.
anceps (Chætodiplodia). II. 292.
anceps (Leptostromella). II. 431.
anceps (Microthyrium). I. 1057.
anceps (Pleospora). I. 883.
anceps (Phyllachora). I. 1025.
anceps (Stilbospora?). II. 480.
Andersonii (Mucronoporus). I. 189.
Andersonii (Pestalozziella). II. 471.
Andersonii (Scoriomyces). II. 718.
Andersonii (Sphærella). I. 650.
Andrachnes (Monosporidium). I. 297.
Andrachnes (Phoma). II. 149.
Andromedæ (Depazites). II. 785.
Andromedæ (Dothidites). II. 771.
Andromedæ (Meliola). I. 413.
andromedina (Phoma). II. 149.
Andropogonis (Cerebella). I. 290.
Andropogonis (Didymosphæria). I. 736.

Andropogonis (Fusarium). II 726.
Andropogonis (Phyllachora). I. 1027.
Andropogonis (Ustilago). I. 284.
Androsaces (Cryptosporium). II. 506.
Androsaces (Septoria). II. 376.
Androsæmi (Lophiotrema var.) I. 1082.
Anemones (Phleospora) II. 398.
Anemones (Stagonospora). II. 333.
Angelæ (Leptothyrium). II. 416.
Angelicæ (Coniosporium). II. 569.
Angelicæ (Fusicladium). II. 597.
Angelicæ (Didymella). I. 663.
angolensis (Kretzschmaria). I. 565.
Anguillulæ (Catenaria). I. 360.
Anguillulæ-aceti (Pythium). I. 348.
angulatus (Sclerotites). II. 803.
angulispora (Clavaria). I. 247.
angustata (Ramularia). II. 554.
Angustifoliæ (Cylindrosporium). II. 505.
angustior (Monilia var.). II. 517.
angustispora (Leptosphæria var.). I. 762.
anisomerum (*Lophiostoma*). I. 1093.
anisospora (Saprolegnia). I. 345.
anisosporum (Coniothecium). II. 668.
Anisopliæ (Entomophthora). I. 355.
Annæ (Metasphæria). I. 826.
annulans (Diatrype). I. 476.
annularis (Xylomites). II. 800.
annulata (Lasiosphæria). I. 852
annulata (Metasphæria). I. 836.
annulata (Schrœteria). I. 288.
annulatus (Cortinarius). I. 125.
annulifer (Sphærites). II. 763.
annuliformis (Phyllachora). I. 1012.
Annulus (Sphærites). II. 769.
anomala (Bovista). I. 274.
anomala (Cercospora). II. 628.
anomala (Didymosphæria). I. 730
anomala (*Discula*). II. 337.
anomala (Næmosphæra). II. 260.
anomalus (Irpex). I 213.
anomalum (Napicladium). II. 661.
Anomathecæ (Uromyces). I. 294.
Anonæ (Hysterographium). I. 1123.
Anonæ (Melophia). II. 429.
anserina (Phoma). II. 188.
antarctica (Bovista). I. 275.
antarctica (Cacosphæria). I. 700
antarctica (Coprolepa). I. 493.
antarctica (Cucurbitaria). I. 916.
antarctica (Cytospora). I. 246.
antarctica (Cytosporella?). II. 242.
antarctica (Darwiniella). I. 1048.
antarctica (Diaporthe Eu.). I. 716.
antarctica (Dothidea?). I. 1044.
antarctica (Gioniella). I. 415.
antarctica (Fistulina). I. 160.
antarctica (Fuckelia?). II 234.
antarctica (Harknessia). II. 270.
antarctica (Herpotrichia). I. 859.
antarctica (Laschia). I. 204.
antarctica (Leptosphæria). I. 783.
antarctica (Melanconis). I. 701.
antarctica (Melanospora). I. 951.
antarctica (Melasmia). II. 420.
antarctica (Morenoëlla). I. 1096.
antarctica (Phoma). II. 159 *).
antarctica (Phoma). II. 176.
antarctica (Phyllactinia). I. 366.
antarctica (Pleonectria). I. 991.
antarctica (Pleospora). I. 877.
antarctica (Pleospora). I. 888 **).
antarctica (Ramphoria). I. 913.
antarctica (Selinia). I. 943.
antarctica (Sphærella). I. 647.
antarctica (Septoria). II. 366.
antarctica (Sporocybe). II. 693.
antarctica (Sporormia). I. 819.
antarctica (Tubercularia). II. 700.
antarctica (Venturia). I. 688.
antarctica (Xylaria). I. 532.
antarctica (Zignoëlla). I. 869.
antarcticum (Acrospermum). I. 1129.
antarcticum (Anthostoma). I. 522.
antarcticum (Camarosporium). II. 341.
antarcticum (Coniothecium). II. 668.
antarcticum (Enteridium). II. 90.
antarcticum (Lophiotrema). I. 1079.
antarcticum (Lophodermium). I. 1126.
antarcticum (Microthyrium). I. 1056.
antarcticus (Cortinarius). I. 123.
antarcticus (Marasmius). I. 67.
antarcticus (Ophiobolus). I. 931.
antarctina (Uredo). I. 332.
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Antennariæ (Phyllosticta). I. 129.

*) Ob homonymam p. 176, hæc (n. 135) *Phoma Caroli* Sacc. dicatur.
**) Ob homonymam p. 877, hæc (n. 53) *Pleospora Caroli* Sacc. dicatur.

Antenoreus (Ophiobolus). I. 929.
anthelmintica (Cercospora). II. 636.
antheræformis (Sphærites). II. 757.
Anthistiriæ (Puccinia). I. 304.
anthocephalus (Marasmius). I. 69.
anthophila (Venturia). I. 693.
anthostomoides (Rosellinia). I. 499.
anthracoderma (Hypoxylon). I. 560.
anthracodes (Hypoxylon). I. 559.
anthracodes (*Hypoxylon*). I. 572.
Anthyllidis (Septoria) II. 361.
antiqua (Diplodia). II. 284.
antiquarius (Peronosporites). II. 748.
antiquum (Thyridium). I. 921.
antiquus (Hydnites) II. 748.
antiquus (Sclerotites). II. 805.
Antirrhini (Chætophoma). II. 218.
Antirrhini (Diplodina). II. 314.
aparaphysata (Pyrenophora). I. 897.
Aparines (Diplodia). II. 288.
Aparines (Septoria) II. 374.
aperta (Rosellinia). I. 500.
aperta (Valsa). I. 453.
Aphidis (Cladosporium). II, 605.
Aphidis (Oospora). II. 514.
Aphidis (Verticillium). II, 546.
apiahyensis (Naucoria). I. 110,
apiahyna (Collybia). I. 32.
apiahyna (Phyllachora). I. 1021.
apiahyna (Sphærella). I, 641.
apiahynum (Hypoxylon). I. 559.
apiahynus (Fomes). I. 174.
apicalis (Marsonia). II. 478.
apiculata (Achlya). I. 346.
apiculosa (Diaporthe Eu.). I. 715.
apiculata (Dothidella). I. 1037.
apiculata (Empusa). I, 350.
apiculata (Physalospora). I. 592.
Apii (Cercospora). II. 624.
apiicola (Septoria). II, 366.
Apii-graveolentis (Ramularia var.). II. 557.
apiospora (Ascochyta). II. 298.
apiospora (Peckiella). I, 944.
apiosporium (Trichosporium). II, 583.
Apludæ (Uredo). I, 333.
apocalypta (Leptosphæria). I. 796.
Apocyni (Cylindrosporium). II, 504
Apocyni (Læstadia). I, 580.
Apocyni (Phyllosticta). II. 132.
apocrypta (Melanconiella). I. 754.
apocrypta (Puccinia). I. 308.
apocryptum (Gloeosporium). II. 451.
aposphærioides (Phoma). II, 161.
appendiculata (Dothidella). I. 1039.
appendiculata (Rosellinia). I. 503.
appendiculatus (Cortinarius). I, 130.
applanata (Amphisphæria). I, 741.
applanata (Micropeltis). I, 1069.
applanata (Phyllachora). I. 1010.
applanata (Sphærella). I. 613.
applanata (Venturia). I. 691.
aquæductum (Fusarium). II. 728.
aquatica (Amphisphæria). I. 744.
aquatica (Pestalozzia). II. 492.
aquatica (Sphærella). I. 646.
aquatica (Stagonospora). II. 335.
aquaticum (Cylindrosporium). II. 505.
aquifolia (Tuberculariа). II. 705.
Aquifolii (Myxosporium). II. 465.
aquila (Rosellinia) I. 495.
Aquilegiæ (Metasphæria). I. 826.
Aquilegiæ (Phoma). II. 165.
Aquilegiæ (Ophiotrichum). II, 618.
aquilina (Leptostromella). II, 431.
aquilina (Sphærella). I, 658.
arabicola (Puccinia). I. 310.
arabicus (Podaxon). I. 268.
arabidicola (Septoria). II. 361.
Arabidis (Hendersonia). II. 325.
Arabidis (Metasphæria). I, 830.
Aracearum (Septoria). II, 883.
arachnoidea (Aseroe). I. 265.
arachnoidea (Meliola). I. 413.
arachnoides (Bovista). I. 275.
arachnoideum (Monopodium). II. 544.
aractina (Valsa). I. 459.
Araliæ (Macrophoma). II. 195.
Araliæ (Phoma). II. 156.
Araliæ (Phyllosticta). II. 105.
Araliæ (Puccinia). I 299.
Aranea (Aposphæria). II. 209.
araniciola (Torrubiella). I, 994.
aratus (Marasmius). I, 67.
Araucariæ (Gloeosporium.) II. 456.
arausiaca (Calospora). I. 872.
Arbuscula (Isaria). II. 689.
Arbuti (Septoria). II. 358
Arbuti (Valsa var.), I, 454.
Arbuti-Unedonis (Phyllosticta). II. 115.
arbuticola (Sphærella). I. 641.
arbuticolum (Coryneun). II. 482.
arbutifolia (Phyllosticta). II, 109,
Arcellæ (Olpidium). I. 361.
Archangelicæ (Læstadia). I. 579,

Archeri (Barlæa?) II. 5.
Arctagrostidis (Pleospora). I. 879.
arctica (Antennaria). I. 442.
arctica (Didymella). I. 670.
arctica (Labrella). II. 421.
arctica (Læstadia). I. 579.
arctica (Melampsora). I. 2?6.
arctica (Monilia). II. 517.
arctica (Pleospora). I. 882.
arctica (Pleospora). I. 892.
arctica (Rosellinia). I. 496.
arctita (Uredo). I. 331.
arcticum (Cladosporium). II. 882.
articum (Microthyrium). I. 1058.
Arcticus (Sphærites). II. 764.
Arctostaphyli (Harknessia) II. 269.
Arctostaphyli (Venturia). I. 690.
arcuaria (Macrophoma). II. 202.
arcuata (Laboulbenia). I. 1134.
arcuata (Phoma). II. 150.
arcuatirostre (Ceratostoma). I. 481.
arcuatus (Boletus). II. 156.
arcuatus (Polystictus). I. 182.
arculatus (Fomes). I. 180.
Arechavaletæ (Phyllachora). I. 1022
Arechavaletæ (Schneepia?) I. 1098.
Arechavaletæ (Septoria). II. 386.
arenaria (Ascochyta) II. 296.
arenaria (Didymosphæria). I. 736.
arenariicola (Puccinia). I. 311.
arenarium (Camarosporium). II. 347.
arenarius (Ophioholus). I. 935.
arenicola (Lepiota). I. 6.
arenicolor (Hebeloma). I. 102.
Areola (Ramularia). II. 556.
areolata (Xylaria). I. 535.
areolatus (Sphærites) II 766.
Argèmones (Gloeosporium). II. 457.
argenteus (Geaster). I. 272.
argillacea (Bovista). I. 274.
argillacea (Hypocrea). I. 985.
argillæ (Hydnites) II. 748.
Argophyllæ (Septoria). II. 350.
Argophyllæ (Uromyces). I. 291.
Armeniacæ (Capnodium). I. 439.
argyrospora (Pleospora). I. 894.
Ari (Ellisiella). II. 592.
Ari (Phacidites). II. 778.
Ariæ (Hendersonia var.). II. 320.
arida (Hymenochæte). I. 228.
aridum (Gloeosporium). II. 452.
Arisari (Phyllosticta). II. 136.
aristatum (Leptothyrium). II. 413.
Aristolochiæ (Septoria). II. 379.
Aristolochiæ (Xylomites). II. 794.
Aristoteliæ (Cercospora). II. 642.
Aristosteliæ (Sphærella). I. 643.
Armandi (Stigmatea). I. 661.
armata (Erysiphe). I. 370.
armata (Meliola). I. 415.
armatum (Helminthosporium). II. 613.
armeniaca (Hypocrea). I. 979.
Armeniacæ (Phoma). II. 142.
armenicolor (Polystictus). I. 184.
arnicalis (Ramularia). II. 557.
Arnoldi (Leciographa). II. 64.
Arnoldi (Tichothecium). I. 724.
aroideum (Coniothyrium). II. 265.
aromatica (Phoma). II. 143.
aromaticum (Lophidium). I. 1091.
arrhizum (Capnodium). I. 441.
Artemisiæ (Dothidea). I. 1043.
Artemisiæ (Macrophoma). II. 202.
Artemisiæ (Pestalozzia). II. 508.
Artemisiæ (Rhabdospora). II. 395.
Arthoniæ (Pharcidia). I. 677.
arthonioides (Melaspilea). II. 58.
Arthuriana (Physalospora). I. 596.
Arthurianum (Coniothyrium). II. 261.
arundinaceum (Hadrotrichum). II. 588.
Arundinariæ (Aulographum). I. 1102.
Arundinellæ (Puccinia) I, 303.
arundinicola (Didymosphæria). I. 736.
Arundinis (Camarosporium). II. 571.
Arundinis (Lophiostoma). I. 1090.
arvernica (Phoma). II. 169.
Asari (Synchytrium). I. 357.
asarifolia (Læstadia). I. 579.
asclepiadea (Diplodia). II. 284.
asclepiadea (Vermicularia). II. 222.
asclepiadicola (Septoria). II. 379.
Asclepiadis (Diaporthe Tet.) I. 722.
Asclepiadis (Ophiobolus). I. 925.
Asclepiadis (Uredo). I. 330.
Asclepiadoræ (Cercospora). II. 635.
ascophanoides (Rhyparobius). II. 33.
ascyrinum (Fusicladium). II. 598.
asema (Trichopeziza) II. 20.
asiatica (Phyllosticta II. 100.
Asiminæ (Cercospora). II. 638.
Asiminæ (Phleospora) II. 398.
Asparagi (Clypeosphæria). I. 798.
Asparagi (Diplodia). II. 291.
Asparagi (Fusarium). II. 725.

Asparagi (Fusarium). II. 725.
Asparagi (Hendersonia). II. 327.
Asparagi (Vermicularia). II. 226.
Asparagi (Leptosphæria). I. 786.
asparagina (Hendersonia). II 327.
asparagina (Leptosphæria). I. 785.
aspera (Amanita). I. 1.
aspergilliformis (Papulospora). I. 539.
asperifolius (Marasmius). I. 70.
asperospora (Monotospora). II. 588.
asperosporum (Stemphylium) II. 672.
asperrima (Meliola var.). I 425.
asperula (Nectria). I. 963.
asperula (Stachybotrys). II. 577.
Asperulæ (Cytospora). II. 248.
asperulus (Hypochnus). II. 243.
asperum (Dematium). II 590.
Asperulæ (Septoria) II 373.
asperum (Fusicoccum). II. 240.
Aspiciliæ (Pharcidia. I. 678.
Aspiciliæ (Scutula). II. 25.
aspideoides (Phyllachora). I. 1013.
aspratum (Hydnum). I. 209.
assans (Stagonospora). II. 333.
assimile (Myxonema). II. 714.
assimilata (Sphærella). I. 630.
assurgens (Sphærulina). I 849.
asterata (Cercospora) II. 626.
astericola (Septoria). II. 371.
asteriformis (Xylomites). II. 799.
Asterinarum (Chætophoma ?). I, 247.
Asterinarum (Dimerosporium), I. 409.
asterinoides (Meliola) I. 423.
asterinoides (Seynesia). I. 1064
asterinoides (Sphærella) I. 619.
asterospora (Inzengæa), I. 610.
Astragali (Æcidium). I. 326.
Astragali (Cucurbitaria I. 918.
Astragali (Napicladium). II. 660.
Astragali (Phoma). II. 170.
Astragali (Sphærella). I. 615.
Astragali-alpini (Phoma) II, 170.
astragalicola (Phyllosticta). II. 128.
astragalicola (Septoria) II. 361.
Astronii (Phyllachora). I. 1019.
athroa (Nectria). I, 960.
atomarium (Calicium), II. 72.
atomarius (Sphærites). II. 753.
atomicor (Sphæria). II. 768.
atomicus (Sphærites). II. 756.
atomospora (Eutypa). I. 469.
atra (Botryodiplodia). II. 295.
atra (Cercospora). II. 618.
atra (Peckiella). I. 944.
atra (Tuberculariа). II. 703.
atrata (Diplodia). II. 278.
atrata (Pyrenopeziza). II. 17.
atrata (Valsaria). I. 758.
atricapilla (Lepiota). I. 10.
atriellum (Scolecotrichum). II. 600.
atro-cervinus (Polystictus). I. 188.
atro-cincta (Phoma). I. 159.
atro-cinerea (Peniophora). I. 237.
atro-fumosa (Botrytis). II. 537.
atro-fusca (Nectria). I. 959
atro-fusca (Reticularia). II. 583.
atro-fusca (Valsaria). I. 759.
atro-fuscum (Anthostoma). I. 521.
atro-grisea (Didymosphæria). I. 731
atro-grisea (Stachybotrys). II. 577.
atro-inquinans (Phyllachora). I. 1023.
atro-maculans (Cercospora). II. 644.
atro-marginalis (Cercospora). II. 635.
atro-nitens (Pigottia). II. 417.
Atropæ (Phoma). II. 174.
atro-pellitus (Pleurotus). I. 51.
atro-puncta (Omphalia) I. 45.
atro-punctata (Ascochyta). II. 299.
atro-purpurea (Russula), I. 61.
atro-rubrum (Stereum). I 235.
atro-rufa (Gibberella). I. 988.
atro-strigosus (Polyporus). I. 171.
atro-umbrinus (Fomes). I. 175.
atro-virens (Aspergillus) II. 524
atro-viridis (Lactarius). I. 56.
atro-viridis (Patinella). II. 52.
atro-zonata (Phyllosticta). II. 125.
atrum (Chætomium). I. 486.
atrum (Chætostroma). II. 736.
atrum (Chloridium). II. 593.
atrum (Didymobotryum). II. 699.
attendenda (Leciographa). II. 63.
aturensis (Lentinus). I. 75.
Aucubulæ (Pleospora). I. 878.
Aucubæ (Rhabdospora). II. 397.
Aucupariæ (Phoma). II. 141.
Aucupariæ (Podosphæra). I. 364.
aulographoides (Lembosia). I. 1107.
aurantiaca (Arcyria). II. 93.
aurantiaca (Monilia). II. 516.
aurantiaca (Poria). I. 191.
aurantiacum (Belonidium). II. 29.
aurantiacum (Helotium). II. 38.
aurantiacus (Ithyphallus). I. 262.

aurantiicola (Eutypa). I. 467.
aurantiicola (Septoria). II 353
aurata (Ombrophila.) II. 39
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clavispora (Tryblidiella). I. 1110.
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clavispora (Zukalia). I. 433.
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Cocconii (Rhabdospora). II. 388.
Coccorum (Nectria). I. 965.
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cocoinum (Hypoxylon). I. 553.
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congesta (Kretzschmaria). I. 566.
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conica (Macrophoma). II. 191.
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consanguinea (Nectria). I. 960.
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consimilis (Mycena). I. 35.
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consimilis (Puccinia). I. 310.
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coprophila (Dendrophoma). II. 211.
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Coronillæ (Cercospora). II. 640.
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corticola (Cylindrocolla). II. 715.
corticola (Hypocrea). I. 974.
corticola (Metasphæria). I. 836.
corticola (Protomyces). I. 363.
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Coryli (Sphærographium). II. 401.
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Coryli (Tubercularia). II. 703.
corylina (Crypstospora). I. 939.
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corylina (Macrophoma). II. 190.
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corylinum (Lophiostoma). I. 1088.
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Crenatæ (Phyllosticta). II. 110.
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Crepini (Brachysporium). II. 617.
Crepini (Chætosphæria). I. 800.
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Crocoxyli (Phyllerites). II. 806.
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Crucianellæ (Puccinia). I. 301.
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Cruciferarum (Cercospora). I. 619.
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crustacea (Lasiosphæria). I. 851.
crustacea (Meliola). I. 413.
crustaceum (Dendryphium). II. 664.
crustaceum (Hormiscium). II. 575.
crustaceum (Monosporium). II. 535.
crustaceum (Myiocopron). I. 1053.
crustosa (Macrophoma). II. 199.
crustosa (Phoma). II. 149.
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cucurbitarioides (Leptosphæria). I. 768.
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Cucurbitæ (Cercospora). II. 634.
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culmorum (Leptosphæria). I. 796.
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Cumanella (Metasphæria). I. 839.
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cupressina (Melanopsamma). I. 685.
Cupula (Didymosphæria). I. 734.
Cupulariæ (Coniothecium). II. 669.
cupularis (Phomatospora). I. 590.
cupularis (Stagonospora). II. 332.
cupulata (Venturia). I. 691.
cupulatum (Synchytrium). I. 357.
Curreyi (Lephiotrema). I. 1078.
curta (Amanitopsis). I. 3.
curtipes (Penicillites). I. 789.
Curtisii (*Pleochæta*). I. 367.
Curtisii (*Sphæria*). I. 814.
Curtisii (Trichosporium). II. 583.
curva (Rhabdospora var.). I. 390.
curva (Septoria). II, 385.
curva (Sphærella). I. 630.
curvata (Peyritschiella). I. 1130.
curvicolla (Philocopra). I. 494.
curvipes (Inocybe). I. 97.
curviseta (Venturia). I. 690.
curvispora (Scirrhiella). I. 1030.
curvula (Rabdospora). II. 390.
curvula (Stagonospora). II. 337.
Cyananthi (Sphærella). II. 626.
cyaneus (Hygrophorus). I. 55.
Cyatheæ (Clavaria). I. 250.
Cyatheæ (Radulum). I. 215.
cycadina (Phyllosticta). II. 124.
Cycadis (Leptothyrium). II. 415.
Cycadis (Phoma). II. 165.
cycliscum (*Hypoxylon*). I. 573.
cyclogena (Sphærella). I. 629.
cyclopicum (Hypoxylon). I. 559.
Cyclotella (Rhizophidium). I. 362.
Cydoniæ (Coryneum var.). II. 481.
Cydoniæ (Diaporthe Chor.). I. 710.
Cydoniæ (Oidium). II. 520.
Cydoniæ (Rhabdospora). II. 388.
cydoniæcola (Sphæropsis) II. 254.
cylindrica (Chalara). II. 595.
cylindrica (Macrophoma). II. 202.
cylindrica (Tubulina). II 89.
cylindrica (Xylaria). I. 525.
cylindroides (Cylindrium). II. 519.
cylindrophora (Cylindrocolla). II. 715.
cylindrospora (Diaporthe Chor.). II. 71
cylindrospora (Macrophoma). II. 203.
cylindrospora (Ophionectria). I. 995.
cylindrotheca (Asterina). I. 386.
cymatotrichum (Chætomium). I. 486.
cymbisperma (Anthostomella). I. 513.
cymbisperma (Physalospora). I. 592.
cymosa (Pythiopsis). I. 346.
Cynanchi (Puccinia). I. 301.
Cynodontis (Physalospora). I. 599.
cynoglossa (Xylaria). II. 528.
Cynoglossi (Mollisia). II. 13.
Cynoglossi (Peronospora). I. 343.
Cynops (Leptosphæria). I. 775.
Cyparissi (Metasphæria). I. 837.
Cyparissiæ (Sphærella). I. 617.
Cyperi (Phyllachora). I. 1028.
Cyperi (Stagonospora). II. 335.
cypericola (Dothidites). II. 772.
cyperina (Torula). II. 574.
Cyrillæ (Phyllosticta). II. 111.
Cytisi (*Ascochyta*). II. 104.
Cytisi (Camarosporium). II. 339.
Cytisorum (Phyllosticta). II. 104.
cytosporella (Phoma). II. 151.
cytosporeum (Gloeosporium). II. 456.

dacrymycella (Hypocrea). I. 973.
dacryosporum (Lophiostoma). I. 1090.
Dactylidis (Sphærella). I. 655.
dactyligluma (Mollisia). II. 17.
dactylina (Leptosphæria). I. 794.
Dædalea (Polystictus). I. 184.
dædaleoides (Lenzites var.) I. 80.
Dahliæ (Nectria). I. 962.
Dahliæ (Papulospora). I. 339.
dahliæcola (Phyllosticta). II. 129.
Dalbergiæ (Phyllachora). I. 1007.
Dalbergiæ (Sphærites). II. 752.
Daleæ (Æcidium). I. 320.
Daleæ (Cercospora). II. 622.

Dalibardæ (Septoria). II. 363.
dalmatica (Macrophoma). II. 203.
damæcornis (Hymenochæte). I. 227.
Dammaræ (Læstadia). I 586.
Danaës (Phyllosticta). II. 136.
Daphnes (Hendersonia). II. 323.
Daphnes (Marsonia). II. 479.
Daphnes (Sphærites). II. 761.
Daphnes (Xylomites). II. 797.
daphnogenes (Xylomites). II. 793.
darjeelensis (Otidea). II. 4.
Darntiana (Strumella). II. 733.
Darutæanum (Sporotrichum). II. 532
Darwinii (Asterina). I. 393.
Darwinii (Cortinarius). I. 123.
Darwinii (Hypocopra). 491. I.
Darwinii (Torula) II. 575.
dasycarpa (Melanconis). I. 701.
Dasylirii (Coniothyrium). II. 267.
dasypepla (Pholiota). I. 93.
dasytricha (Sterigmatocystis). II. 525.
Datiscæ (Phomatospora). I. 590.
Daturæ (Asteroma). II. 219.
Davalliana (Vermicularia). I. 227.
Daviesiæ (Cercospora). II. 641.
Daviesiæ (Phoma). II. 138.
Davisii (Cercospora). II. 622.
Davisii (Hendersonia). II. 323.
Davisii (Septoria) II. 372.
dealbata (Penzigia). I. 568.
dealbata (Phoma). II. 141.
dealbata (Strumella). II. 734
dealbata (Zignoella). I. 867.
Dearnessii (Calonectria). I 985.
Dearnessii (Cylindrosporium). II. 499.
Dearnessii (Diplodia). II. 279.
Dearnessii (Septoria). II. 366.
Dearnessii (Stagonospora). II. 333.
De-Baryanum (Clastoderma). II. 88.
De-Baryanum (Tuber). II. 81.
debreceniensis (Bovista). I. 275.
decidua (Meliola). I. 426
decipiens (Ascochyta). II. 300 *).
decipiens (Ascochyta). II. 307.
decipiens (Diatrypella). I. 479.
decipiens (Dinemasporium). II. 431.
decipiens (Glœosporium). II. 453.
decipiens (Hymenopsis). II. 735.
decipiens (Hysterites). II. 774.
decipiens (Leptothyrium). II. 416.
decipiens (Pyrenochæta). II. 222.
decipiens (Trichosphærella). I. 604.
declivis (Fomes). I. 176.
decolorans (Nectria). I. 656.
decolorans (Russula). I. 63.
decolorans (Tichothecium). I. 726.
decoloratum (Æcidium.). I. 325.
decorahensis (Melanconiella). I. 754.
decorticata (Amphisphæria). I. 742.
decorticata (Dothiorella). II. 232.
decorticata (Rhabdospora). II. 396.
decorus (Boletus). I. 155.
decrescens (Polyporus). I. 166.
Deeringiæ (Coleosporium). I. 317.
deflectens (Exosporium). II. 739.
deflectens (Phoma). II. 164.
Deflersii (Podaxon). I. 267.
deflexa (Virgaria). II. 580.
defolians (Septoglœum). II. 496.
deformans (Barclayella). I. 316.
deformans (Exoascus). II. 69.
deformis (Amphisphæria). I. 744.
deformis (Valsa) I. 459.
deformis (Xylomites). I. 795.
Delacourei (Diatrype). 474.
Delacroixii (Botrytis var.) II. 540.
Delacroixii (Coniothyrium). II 261.
Delacroixii (Fusarium). II. 725.
Delacroixii (Sterigmatocystis). II. 527.
Delavayi (Cylindrina). I. 937.
Delavayi (Leptosphæria). I. 766.
Delavayi (Phialea). II. 9.
Delavayi (Polyporus). I. 172.
Delawayi (Uncinula). I. 367.
delicatula (Meliola). I. 415.
delicatulum (Chætomium). I. 486.
delicatus (Geaster). I. 272.
deliciosa (Phyllosticta). II. 102.
delitescens (Asterina). I. 383.
delitescens (Biatorella). II. 23
delitescens (Cucurbitaria). I. 910.
delitescens (Diaporthe Tet.). 721.
Dematium (Vermicularia). II. 223.
demersa (Sphæropsis). II. 255.
Demetriana (Diatrypella). I. 478.
demissa (Leptosphæria). I. 774.

*) Præcedente specie homonyma Trailii (n. 67), hæc (n. 31) dicatur *Ascochyta Josephinæ* Sacc., ad memoriam dilectæ Filiæ, quæ in indice redigendo juvit.

demissum (Lophiostoma). I. 1090.
dendritica (Cytospora). II. 244.
dendritica (Homostegia). I. 1050.
dendriticum (Archagaricon). II. 746.
Dendrobii (Diplodina). II. 316.
dendroidea (Xylaria). I. 537.
dendroides (Dactylium). II. 552.
dendroides (Sphærella). I. 631.
denigrata (Pleonectria). I. 991.
Denisoni (Glœosporium). II. 457.
densa (Clavaria). I. 249.
densa (Meliola). I. 419.
densa (Sphærella). I. 622.
densa (Torula). II. 573.
densipes (Dendrodochium). II. 707.
densissima (Diaporthe Tet.). I. 720.
densissima (Microsphæra). I. 368, 309.
densus (Nyctomyces). II. 802.
densus (Sporotrichites). II. 790.
Dentariæ (Septoria). II, 361.
dentatum (Chytridium). I. 358.
denudata (Didymosphæria). I. 730.
Deodaræ (Diplodia). II. 287.
depallens (Nectria). I. 962.
depauperata (Micropeltis). I. 1069.
depauperatus (Polystictus). I. 187.
depazeæformis (Pestalozzia). II. 494.
depazeæformis (Sphærella). I. 625.
depazeoides (Sacidium). II. 422.
deperditus (Hysterites). II 773.
deperditus (Sphærites). II. 751.
deplanata (Stagonospora). II. 334
depressa (Cornuvia). II. 92.
depressa (Læstadia). I. 578.
depressa (Micropeltis). I. 1070.
depressa (Phoma). II. 147.
depressa (Pyrenophora). I. 895.
depressa (Sphærella). I. 654.
depressa (*Tubercularia*). II. 704.
depressula (Metasphæria). I. 828.
depressula (Phoma). II. 185
depressulum (Thelocarpon). I. 947.
depressum (Hysterographium var.) I. 1120.
derasa (Leptosphæria). I. 771.
Dermatella (Lecanidion). II. 60.
Deschmannii (Sphærella). I. 628.
desciscens (Fusarium). II. 722.
Desmanthi (Cercospora). II. 641.
Desmodii (Meliola). I. 415.
Desmodii (Phyllosticta). II. 128.
Desmodii (Sphærella). I. 616.
desolationis (Phoma). II. 160.
Destreæ (Massaria). I 760.
destruens (Brunchorstia). II. 431.
destruens (Conida). II. 75.
destruens (Ramularia). II. 553.
destructiva (Cercospora). II. 642.
destructiva (Læstadia). I. 588.
destructiva (Phoma). II. 175.
destruens (Oidium). II. 521.
detonsa (Rosellinia). I. 505.
deusta (Diatrypella). I. 478.
deusta (Valsa). I. 456.
Deutziæ (Cercospora). II. 642.
Deutziæ (Fusidium). II. 516.
Deutziæ (Phyllosticta). I. 102
Deutziæ (Uredo). I. 328.
diabolica (Dædalea). I. 200.
diabolicus (Polyporus). I. 162.
djakovense (Hysterographium). I. 1122.
Dianthi (Ascochyta). I. 301.
dianthophila (Septoria). II. 364.
Diapensiæ (Phyllosticta). II. 133.
diaphana (Zignoella). I 867.
diaphanum (Cladosporium). II. 603.
diaphorella (Melaspilea). II. 59.
diaportheoides (Pleospora). I. 875.
diaporthoides (Leptosphæria). I. 763.
diaporthoides (Ophioceras). I. 938.
diathrauston (*Hypoxylon*). I. 523.
diatrypa (Valsa). I. 450.
diatrypelloides (Hypoxylon). I. 552.
diatrypoides (Dothiorella). II. 229.
diatrypoides (Valsa). I. 450.
dichænoides (Asterella). I. 398.
dichænoides (Glonium). I. 1103.
dichomeroides (Camarosporium). II. 343.
dichotomum (Gonatobotryum). II. 579.
dichotomum (Pythium). I. 348.
dichotomum (Verticillium). II. 545.
dichroa (Lenzites). I. 79.
dichroa (Leptosphæria). I. 778.
dichrous (Lentinus). I. 72.
Dickinsii (Trametes). I. 196.
Dicksonii (Rhizophidium). I. 362.
dictyocephalus (Boletus). I. 154.
dictyonema (Arcyria). II. 92.
diderma (Rosellinia). I. 500.
didyma (Septoria). II. 359.
didyma (Thaxteria). I. 687.
didymarioides (Ramularia). II. 556.
didymelloides (Diaporthe Tet.). I. 716.
didymopsis (Massariella). I. 739.
Diervillæ (Septoria). II. 356.

diervillicola (Septoria). II. 356.
difficilis (Cortinarius). I. 130.
diffissa (Peniophora). I. 239.
diffluens (Cylindrocolla). II. 715.
diffracta (Lepiota). I. 5.
diffusa (Amphisphæria). I. 747.
diffusa (Cercospora). II. 635.
diffusa (Lembosia). I. 1106.
diffusa (Poria). I. 193.
diffusum (Fusarium). II. 724.
digitata (Calocera). I. 252.
digitata (Entorrhiza). I. 287.
digitata (Hypocrea). I. 979.
digitifera (Diaporthe Tet.). I. 721.
Digraphidis (Puccinia). I. 308.
dilabens (Perisporium). I. 412.
dilatata (Clitocybe). I. 27.
dilophosporum (Hyaloceras). II. 484.
dilutelloides (Pezizella). II. 10.
dimerosporioides (Couturea). II. 329.
dimerosporioides (Zukalia). I. 434.
diminuta (Calonectria). I. 985.
dimorphum (Dematium). II. 590.
dimorphum (Melanconium). II. 472.
dimorphum (Septogloeum). II. 497.
Diodiæ-virginianæ (Cercospora). II. 615.
Dioscoreæ (Ramularia). II. 562.
Dioscoreæ (Sphærella). I. 652.
Diospyri (Gloeosporium). ✱. 454.
diplocarpa (Asterina). I. 381.
diplocarpa (Nectria). I. 971.
Diplodina (Ascochyta). I. 295.
Diploglottidis (Phoma). II. 157.
Diploglottidis (Uromyces). I. 294.
diplospora (Ustilago). I. 284.
diplosporum (Helicosporium). II. 681.
dipsacea (Rhabdospora). II. 393.
Dipsaci (Phoma). II. 170.
dipterigena (Cordyceps). I 999.
dipterigena (Entomophthora). I. 352.
discedens (Helotium). II. 9.
disciforme (Coryneum). II. 483.
disciforme (Epidochium). II. 736.
disciformis (Auerswaldia). I. 1033.
disciformis (Cryptomyces?). II 48.
disciformis (Sphærites). II. 761.
discipes (Coprinus). I. 146
discoidea (Asterella). I. 395.
discoidea (Cocconia). II. 50.
discoidea (Cyphella). I. 247.
discoidea (Nummularia). I. 570.
discoidea (Vermicularia). II. 228.
discoideum (Fusarium). II. 722.
discolor (Chætomium). I. 484.
discolor (Coryneum). II. 482.
discolor (Trametes). I. 195.
discosioides (Pestalozzia). II. 493.
discosioides (Robillarda). II. 309.
discrepans (Diaporthe Eu.). I. 714.
discriminanda (Diplodia). II. 291.
dispar (Asterina). I. 384.
dispersa (Arthonia). II. 77.
dispersa (Cercospora). II. 652.
dispersa (Pharcidia). I. 677.
dispersa (Phoma). II. 161.
dispersa (Phyllachora). I. 1015.
dispersa (Zukalia). I. 433.
dispersus (Sphærites). II. 758.
dispersus (Xylomites). II. 800.
dispiroides (Sigmoideomyces). II. 523.
disseminata (Rhabdospora). II. 392.
disseminata (Sphærella). I. 657.
disseminata (Venturia var.). I. 693.
disseminatum (Æcidium). I. 322.
disseminatum (Calicium). II. 74.
disseminatum (Sphæronæma). II. 214.
dissimilis (Leptosphæria var.). I. 762.
distincta (Massaria). I. 762.
ditior (Diplodia). II. 286.
ditricha (Venturia). I. 690.
divaricata (Clavaria). I. 249.
divaricata (Pterula). I. 255.
Divaricatæ (Septoria). II. 377.
divaricatum (Hormodendrum). II. 591.
divaricatus (Nyctomyces). II. 802.
divergens (Cryptosporella). I. 609.
divergens (Phoma). II. 147.
divergens (Phyllosticta). II. 138.
diversisporum (Epicoccum). II. 732.
divisa (Epichlæa). I. 356.
Doassansii (Cordyceps). I. 1000.
Dodecantheæ (Phyllosticta). II. 133.
Dodonæi (Asterella). I. 399.
Dolichi (Cercospora). II. 621.
dolichopus (Sporodesmium). II. 667.
dolichospora E. et Ev. (Septoria). II. 372*).

*) Præcedente *Septoria dolichospora* Trailii (1885), hæc dicatur *Sept. Francisci* Sacc. ad memoriam nepotis optimi F. SACCARDO, qui in indicibus conficiendis valide juvit.

dolichospora Trail (Septoria). II. 384.
doliolioides (Leptosphæria). I. 763.
Doliolum (Leptosphæria). I. 762.
Doliolum (Phoma). II. 173.
dolosa (Diaporthe Tet.). I. 718.
dolosella (Valsa). I. 451.
domesticus (Lentinus). I. 73.
Donacis (Phyllachora). I. 1029.
doratopsis (Capnodium). I. 441.
Dorcas (Nectria). I. 970.
Dorsteniæ (Puccinia). I. 310.
dothideoides (Clasterosporium). II. 607.
dothideoides (Clypeolum). I. 1061.
dothideoides (Gibellia). I. 608.
dothideoides (Trullula). II. 467.
dothideospora (Amphisphæria). I. 746.
Douglasii (Botrytis). II. 536.
Drabæ (Ascochyta). II. 302.
Drabæ (Rhabdospora). II. 391.
Drabæ (Sphærotheca). I. 365.
Dracænæ (Lophodermium). I. 1126.
dracænatum (Cladosporium). II. 605.
Draconis (Cytospora). II. 249.
Drummondii (Chænoderma). I. 268.
Dryadis (Didymosphæria). I. 733.
Dryadis (Massarina). I. 825.
Dryadis (Melanomma). I. 804.
Dryadis (Pleospora). I. 892.
Dryadum (Dothidites). II. 771.
Dryadum (Sclerotites). II. 804.
Dryadum (Sphærites). II. 764.
dryina (Bactrospora). II. 67.
dryina (Macrophoma). II. 189.
dryinum (Corticium). I. 235.
Drymejæ (Xylomites). II. 796.
Drymidis (Lembosia). I. 1105.
Drymidis (Phoma). II. 154.
Drymidis (Sphærella). I. 639.
dryophila (Dothiorella). I. 231.
dryophila (Stictis). II. 46.
dualis (Mucronoporus). I. 188.
dubia (Diplodiella). II. 293.
dubia (Leciographa). II. 64.
dubia (Leptosphæria). I. 772.
dubiosa (Leptosphæria). I. 788.
dubiosum (Dimerosporium). I. 407.
dubiosum (Eriothyrium). I. 418.
dubiosum (Fusicladium). II. 599.
dubiosum (Hypoxylon). I. 547
dubium (Glœosporium). II. 456.
dubium (Sporonema). II. 435.
dubius (Boletus). I. 158.
dubius (Hysterites). II. 774.
Duchassaingii (Xylaria). I. 526.
Duclauxi (Penicillium). II. 527.
Dugesii (Scleroderma). I. 278.
Dulaciana (Tremella) I. 258.
Dulcamaræ (Cucurbitaria). I. 920.
Dulcamaræ (Leptosphæria var.). I. 776.
Dulcamaræ (Stagonospora). II. 333.
Dulcamaræ (Trichægum). II. 678.
dumorum (Karstenula). I. 873.
dunarum (Hypocopra). I. 490.
Duncani (Sphærites). II. 756.
duplicata (Cercospora). II. 648.
durissima (Cytospora). II. 248.
durus (Gymnodiscus). II. 35.
Dussii (Myriadoporus). I. 201.
dysthales (Entoloma). I. 85.

Earliana (Sphærella). I. 623.
Eatoni (Dædalea). I. 200.
Eatoni (Galera). I. 113.
Eberstalleri (Stereum). I. 226.
Ebneri (Hydnum). I. 209.
Ebuli (Sphærella). I. 628.
Ebuli (Zignoella). I. 861.
eburnea (Massarina). I. 824
ebærneus (Panæolus). I. 147.
ecatonsporum (Tichothecium var.). I. 727.
echinata (Bovista). I. 275.
echinata (Eutypa). I 468.
echinatum (Chætostylum). I. 337.
echinella (Lepiota). I. 8.
echinocarpa (Inocybe). I. 95.
echinoderma (Lepiota). I. 8.
echinophila (Didymella). I. 666.
echinosperma (Naucoria). I. 113.
Echinospermi (Peronospora var.). I. 343.
echinospora (Entomophthora). I. 353.
echinospora (Naucoria). I. 112.
echinulatum (Œdocephalum) II. 522.
Echioidis (Phoma). II. 168.
Eduardi (Amphisphæria) I. 745.
effugiens (Melanomma). I. 804.
effigurata (Sphærella). I. 644.
effossus (Sphærites). II 755.
effusa (Asterina). I. 382.
effusa (Bispora). II. 596.
effusa (Monilia). II. 517.
effusa (Ramularia). II. 555.
effusa (Septoria). II. 352.
effusum (Didymosporium). II. 475.
effusum (Hyphoderma). II. 531.

effusum (Fusicladium). II. 598.
effusum (Trichosporium). II. 585.
effusus (Ceriomyces). I. 202.
Eggersii (Xylaria var.). I. 530.
eguttulata (Phoma). II. 162.
Ehrenreichii (Polystictus). I. 184.
Ehretiæ (Macrophoma). II. 193.
Eidami (Gymnoascus). II. 71.
Eismondii (Clitocybe). I. 20.
ejiciens (Phoma). II. 140.
elæagnella (Phoma). II. 145.
Elæagni (Dichomera). II. 348.
Elæagni (Hendersonia var.). II. 318.
Elæagni (Septoria). II. 357.
elæosporus (Ophiobolus). I. 929.
elæostroma (Diaporthe Chor.). I. 710.
elastica (Leptostromella). II. 430.
elastica (Venturia). I. 688.
elastica (Xylaria). I. 531.
Elasticæ (Glœosporium). II. 456.
elatior (Agaricus). I. 138
elatior (Naucoria). I. 109.
elatum (Lycoperdon). I. 277.
elegans (Æcidium). I 320.
elegans (Ascophanus). II. 32.
elegans (Eurotites). II. 750.
elegans (Laboulbenia). I. 1133.
elegans (Lasiosphæria). I. 850.
elegans (Physospora). II. 530.
elegans (Rosellinia var.). I. 497.
elegans (Sporormia). I. 817.
elegans (Sterigmatocystis). II. 525.
elegantissimum (Macrosporium). II. 675.
elegantula (Venturia). I. 690.
elephantina (Diaporthe). I. 711.
Elepantopi (Cercospora). II. 626.
elevans (Eutypa). I. 467.
elevata (Aposphæria). II. 209.
elevata (Microsphæra). I. 369.
elevatum (*Didymosporium*). II. 475.
eleutheros (Boletus var.). I. 151.
Elisæ-Mariæ (Trichosphæria). I. 603.
ellipsospora (Xylaria). I. 530.
elliptica (Diatrype). I. 474
ellipticum (Camarosporium). II. 346.
ellipticum (Dendrodochium). II. 708.
ellipticum (Hypoxylon). I. 557.
ellipticus (Xylomites). II. 795.
Ellisii (Anthostoma). I. 521.
Ellisii (Diaporthe Chor.). I. 706.
Ellisii (Entyloma). I. 287.
Ellisii (Haplaria). II. 520.
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Ellisii (Sphæropsis). II. 257.
Ellisii (Volutella). II. 720.
Elodeæ (Chytridium). I. 359.
elongata Peck (Cercospora). II. 629.
elongata Sorok. (Cercospora). II. 633 *).
elongata (Laboulbenia). I. 1132.
elongata (Macrophoma). II. 204.
elongata (Stachybotrys). II. 577.
elongata (Strumella). II 733i
elongatum (Fusarium) II. 722.
Elymi (Rostrupia). I. 316.
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Embothrii (Phyllosticta). II. 120.
Embothrii (Sphærella). I. 633.
Emeri (Diplodia). II. 276.
Emerici (Dasyscypha). II. 22.
Emerici (Podaxon). I. 267.
Emerici (Trametes). I. 195.
Emerici (Xylaria). I. 528.
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emergens (Lophiotrema). I. 1077.
emergens (Melanopsamma). I. 696.
emergens (Melaspilea). II. 59.
Emodensis (Cortinarius). I. 121.
Empetri (Melasmia). II. 419.
Empetri (Septoria). II. 337.
Empetri (Sporomega). II. 1127.
Emplastrum (Lepiota). I. 8.
Encephalarti (Glœosporium). II. 457.
encœlioides (Mollisia). I. 14.
endocrypta (Dothidella). I. 1037.
endoleuca (Didymosphæria). I 732.
endopteris (Phomatospora). I. 591.
endophæa (Lenzites). I. 79.
endophænia (Leptosphæria). I. 701.
endophlæa (Macrophoma). II. 201.
endophlœa (Sphæropsis). II. 254.
endophlœum (Lophiostoma). I. 1088.
endopyria (Bagnisiella). I. 1005.
endorrhodia (Dothiorella). II. 232.
endorrhodioides (Phoma). II. 166.
endotephra (*Poria*). I. 191.

*) Præcedente *Cerc. elongata* Peck (1880), hæc dicatur *C. Sorokinii* Sacc.

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enecans (Verticillium). II. 546.
Engeliana (Pleospora). I. 881.
Engelii (Polystictus). I. 188.
Engleri (Læstadia). I. 587.
Engleri (Phoma). II. 182.
Engleri (Phyllachora). I. 1023.
Engleri (Pyrenochæta). II. 221.
Engleriana (Lepiota). I. 7.
enormis (Sphæropsis). II. 254.
Enterolobii (Phyllachora). I. 1007.
entoxylinus (Nyctomyces). II. 801
epapillatus (Hygrophorus var.) I. 54.
Ephedræ (Camarosporium). II. 345.
ephemera (Hypsotheca). II. 72.
epiboloides (Thelocarpon var.). I. 948.
epibolum (Thelocarpon). I 948.
epibryum (Cladosporium). II. 605.
Epichloe (Nectria). I. 963.
Epicecidium (Phoma). II. 158.
Epicladii (Glœosporium). II. 463.
epicoccoides (Cercospora). II. 644.
epiconcolor (Karschia var.). II. 58.
Epigeæ (Phyllosticta). II. 115.
epigæum (Sporotrichum). II. 534.
epileuca (Rosellinia). I. 496.
epilithellum (Thelocarpon). I. 947.
epilobiana (Venturia). I. 695.
Epilobii (Diplodia). II. 290.
Epilobii (Glœosporium). II. 460.
Epilobii (Hendersonia). II. 325.
Epilobii (Phoma). II. 179.
Epilobii (Phyllosticta). II. 131.
Epimedii (Sacidium). II. 422.
epimyces (Corethropsis). II. 523.
epimyces (Heterosporium). II. 660.
epimyces (Hypocrea). I. 974.
epimyces (Microthyrium). I. 1060.
epiphylla (Taphrina). II. 68.
epiphyllum (*Corticium*). I. 238.
epipolytropa (Didymella) I. 671.
episphæria (Nectria). I. 964.
episphæria (Ophionectria). I. 995.
episphæricum (Helotium). II. 8.
episphæricum (Septonema). II. 610.
epistroma (Asteromella). II. 212.
epistroma (Sphærella). I 657.
epithallinum (Thelocarpon). I. 948.
epixantha (Rosellinia). I 496.
epixyla (Hendersonia). II. 321.
epixylon (Dinemasporium). II. 438.
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Equiseti (Glœosporium). II) 463.
Equiseti (Hendersonia). II. 329.
Equiseti (Phoma). II. 187.
Equiseti (Stagonospora). II. 337.
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Eranthemi (Leptosphæria). I. 773.
Erechtitis (Cercospora). II. 629.
Erechtitis (Septoria). II. 370.
erecta (Trichia). II. 94.
erectum (Mystrosporium). II. 678.
Ericæ (Leptosphæria). I. 780.
Ericæ-arboreæ (Anthostomella var.). 507.
Ericetorum (Celidium). II, 76.
Erigerontis (Leptosphæria var.). I. 770.
erinacea (Valsa). I. 458.
erineophila (Microsphæra). I. 368.
Eriobotryæ (Basiascum). II. 474.
eriophilum (Dimerosporium). I. 401.
eriophora (Meliola). I. 415.
Eriophori (*Kriegeria*). II. 497.
Eriophori (Septoria). II. 383.
eriosporioides (Gamaspora). II. 402.
eriostoma (Didymella). I. 668.
erisyphoides (Globulina). I. 933.
erosum (Lophiostoma). I. 1089.
erraticulum (Melanomma). I. 807.
erraticum (Tichothecium). I. 726.
erraticus (Cortinarius). I. 125.
eructans (Anthostomella). I. 505.
erumpens (Macrophoma). II. 196.
erumpens (Oidium). II. 520.
eryngiana (Massaria). I. 761.
eryngiana (Phoma). II. 176.
Eryngii (Æcidium). I. 320.
Eryngii (Cylindrosporium). II. 503.
Eryngii (Leptosphæria). I 762.
Eryngii (Septoria). II 367.
Eryngii (Sphærella). I. 624.
eryngicola (Phoma). II. 176.
erysiphoides (Apiosporium). I. 375.
erysiphoides (*Asterella*). I. 394.
erysiphoides (Calonectria). I. 984.
erysiphoides (Dimerosporium). I. 407.
erysiphoides (Sphærella). I. 633.
erysiphoides (Venturia). I. 694.
erysiphoides (Zukalia). I. 432.
Erythrinæ (Cercospora). II. 640.
erythrogena (Cercospora). II. 644.
erythrospora (Inzengæa). II. 610.
erythrosporus (Clitopilus). I. 85.
erythrostigma (Nectriella). I. 942.

Erythroxyli (Phyllosticta). II. 122.
Escalloniæ (Melasmia). II. 419.
esculentoides (Collybia). I. 28.
esculentum (Æcidium). I. 319.
Eucalypti (Asteridium). I. 436.
Eucalypti (Aulographum). I. 1102.
Eucalypti (Camarosporium). II. 340.
Eucalypti (Cercospora). II. 644.
Eucalypti (Diaporthe Chor.). I. 708.
Eucalypti (Epidochium). II. 736.
Eucalypti (Hypoderma). I. 1124.
Eucalypti (Hysterium). I. 1108.
Eucalypti (Leptostromella). II. 430.
Eucalypti (Martinella). II. 409.
Eucalypti (Malasmia). I. 419.
Eucalypti (Montagnella). I. 1048.
Eucalypti (Nectria). I. 969.
Eucalypti (Protostegia). II. 444.
Eucalypti (Rhytismites). II. 780.
Eucalypti (Sacidium). II. 422.
Eucalypti (Sphærites). II. 752.
Eucalypti (Trabutia) I. 601.
Eucalyptorum (Leptothyrium). II. 413.
Eucalyptorum (Schizothyrium). I. 1100.
encephala (Xylaria). I. 536.
eucrypta (Chætomella). II. 271.
Eugeniæ (Campsotrichum). II. 586.
Eugeniæ (Dothidella). I. 1038.
Eugeniarum (Phacidites). II. 776.
eugeniophilus (Sphærites). II. 758.
Eulaliæ (Sphærella). I. 656.
eumorpha (Cyphella). I. 247.
eumorphum (Anthostoma). I 522.
eunomia (Dothiopsis). II 229.
eunotiæspora (Wallrothiella). I. 605.
Eupatorii (Dothichiza). II. 432.
Eupatorii (Poria). I. 192.
euphorbiacea (Gnomonia). I. 672.
Euphorbiacearum (Helminthosporium.). II. 614.
Euphorbiæ (Coniothyrium). II. 231.
Euphorbiæ (Monosporidium). I. 297.
Euphorbiæ (Ramularia). II. 262.
Euphorbiæ (Rhabdospora). II. 396.
Euphorbiæ (Sphærella). I. 620.
Euphorbiæ (Sphæropsis) II. 252.
Euphorbiæ-dulcis (Melampsora). I. 296.
euphorbicola (Leptosphæria). I. 775.
euphorea (Diatrype). I. 177.
Euphrasiæ (Sphærella). I. 626.
euphyllus (Pleurotus). I. 51.
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Eurilliæ (Didymella). I. 666.
europæa (Hiatula). I. 41.
Eurotiæ (Æcidium). I. 319.
euryasca (Didymosphæria). I. 734.
eustygia (Collybia). I. 33.
eutheloides (Inocybe). I. 99.
eutricha (Chætophoma). II. 216.
eutrichum (Dimerosporium). I. 402.
eutypa (Kalmusia). I. 823.
eutypæformis (Cryptovalsa) I. 471.
eutypoides (Leptosphæria). I. 767.
eutypoides (Thyridaria). I. 822.
evallata (Sporormia). I. 818.
evanescens (Sphærites). II. 754.
Evansiæ (Sphærella). I. 651.
Everhartii (Melanconis). I. 700.
Everhartii (Mucronoporus). I. 189.
Everhartii (Myriococum). I. 374.
Everhartii (Ophionectria). I. 996.
Everhartii (Pestalozzia). II. 492.
Everhartii (Sorosporium). I. 239.
Evodiæ (Meliola). I. 422.
evolvens (Corticium). I. 235.
Evolvuli (Sphæropsis). II. 251.
evonymella (Cytospora). II. 244.
evonymella (Septoria). II. 350.
Evonymi (Ascochyta). II 293.
Evonymi (Camarosporium). II. 342.
Evonymi (Cercosporella). II. 564.
Evonymi (Cucurbitaria f.) I. 916.
Evonymi (Cytospora). II. 244.
Evonymi (Haplosporella). II. 274.
Evonymi (Pleospora var.). I. 885.
Evonymi (Trichosporium). II. 583.
Exaci (Macrophoma). II. 193.
exanthematica (Phyllachora). I. 1021.
exappendiculata (Placosphæria var.). II. 235.
exarida (Sphærella). I. 636.
exasperans (Diaporthe Tet.). I. 717.
exasperans (Valsaria), I. 757.
excavatulum (Thelocarpon), I. 948.
excelsa (Macrophoma). II. 189.
excelsum (Dimerosporium). I. 401.
excentrica (Collybia). I. 30.
excipienda (Lecideopsis). II. 77.
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excipuloides (Sphærites). II. 761.
exigua (Isaria). II. 691.
exiguum (Hypoxylon). I. 550.
exiguum (Leptothyrium). I. 414.
exiguum (Sphæronæma). II. 214.

exiguum (Tuber). II. 81.
exile (Septonema). II. 609.
exilis (Chætosphæria). I. 800.
eximius (Boletus). I. 155.
exitialis (Sphærella). I. 655.
expers (Valsa). I. 459.
exquisita (Mycena). I. 40.
exsculpta (Phyllachora) I. 1019.
exsudans (Anthostoma var.). I. 521.
extensicola (Puccinia). I. 311.

Fabæ (Cercospora). II. 621.
fagetorum (Marasmius var). I. 70
Fagi (Discula). II. 433.
fagicola (Massaria). I. 760.
fagicola (Phyllosticta). II. 116.
fagicola (Septoria). II. 359.
fagicola (Valsa). I. 458.
fagicolum (Gloeosporium). II. 454.
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faginea (Diplodiella). II. 293.
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faginea (Phyllosticta). II. 117.
fagineum (Coryneum). II 482.
fagineus (Hæmatomyces). II. 40.
Fagopyri (Ascochyta). II. 306
Fagopyri (Puccinia). I. 306.
Fairmani (Coniosporium). II. 370.
Fairmani (Didymium). II. 86.
Fairmani (Pseudovalsa). I. 820
Fairmani (Septoria). II. 365.
fallaciosa (Clitocybe). I. 23.
fallaciosa (Leptosphæria). I. 773.
fallax (Calicium). II. 72.
fallax (Calosphæria). I. 448.
fallax (Leptosphæria). I. 779.
fallax (Macrophoma). II. 404.
fallax (Melanopsamma). I. 684.
fallax (Melanospora). I. 952.
fallax (Sporotrichum). II. 332.
fallax (Trematosphæria). I. 814.
fallacissimum (Lophiostoma). I. 1086.
fallens (Phoma). II. 146.
farinacea (Amanitopsis). II. 2.
farinaceus (Panus). I. 77.
farinosa (Cryptosporella). I. 609.
farinosa (Diaporthe Chor.). I. 702.
farinosa (Lepiota). I. 8.
farinosum (Oidium). II. 520.
farinosus (Polyporus). I. 169.
Farlowiana (Phoma). II. 153.
Farlowii (Exoascus). II. 70.
Farlowii (Podaxon). I. 267.
fasciata (Inocybe). I. 95.
fasciatum (Hydnum). I. 210.
fasciatum (Schizophyllum). I 81.
fascicularis (Cortinarius). I. 121.
fasciculata (Botrytis). II. 538.
fastidiosa (Puccinia). I. 306.
fastigiata (Xylaria var.). I. 528.
fatiscens (Phyllosticta). II. 124.
Fautreyana (Septoria). II 362.
Fautreyi (Pestalozzia). II. 496.
favosa (Xylaria). I. 531.
Fayodi (Melanospora). I. 952.
fecundum (Pythium). I. 348.
Feistmantelianus (Sphærites). II. 769.
Fendleri (Hypocrea). I. 979.
Fendleri (Hypoxylon). I. 555.
Fendleri (Wallrothiella). I. 605.
fenestrale (Lophidium). I. 1093.
fenestrans (Didymosphæria). I. 729.
fenestrata (Pleonectria). I. 990.
fenestrata (Pleospora). I. 890.
fenestrata (Pyrenophora). I. 897.
fennica (Lasiosphæria var.). I. 852.
fennicum (Clasterosporium var.). II. 607
fennicum (Hydnum). I. 208.
Feroniæ (Depazites). II. 786.
Feroniæ (Phacidites). II. 777.
Feroniæ (Rhytismites). II. 783.
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ferruginascens (Cylindrotrichum var.). II 530.
ferruginea (Linospora). I. 936.
ferruginea (Nectria). I. 958.
ferruginea (Saccardia). I. 371.
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Festucæ (Marasmius). I. 70.
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fibrillosa (Inocybe). I. 98.
fibrillosa (Pleospora). I. 881.
Fici (Kalmusia). I. 822.
Fici (Næmospora). II. 507.
Fici (Phyllosticta). II. 120.
Fici (Sphærites). II. 762.
Fici (Stagonospora). II. 332.
ficicola (Phyllerites). II. 808.
ficicola (Xylomites). II. 795.
ficina (Diplodiella). II. 293.

Fici-tenuinervis (Sphærites). II. 762.
Ficus (Botryosphæria). I. 606.
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Fieberi (Chætomium). I. 485.
Fieberi (Sepedonium). II. 543.
Fiedleri (Hendersonia). II. 322.
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filamentifera (Chætophoma). II. 218.
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filamentosa (Macrophoma). II. 202.
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filicina (Sphæronæmella). II. 407.
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fimetaria (Lepiota). I. 7.
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fimetarius (Aspergillus). II. 524.
fimetarius (Stysanus var.). II. 697.
fimeti (Phoma). II. 188.
fimeti (Verticillium). II. 545.
fimicola (Macrophoma). II. 198.
fimicola (Sphæronæmella). II. 407.
fimiseda (Venturia). I. 695.
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flaccida (Lenzites). I. 79.
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flagellifera (Cercospora). II. 624.
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flagellipes (Collybia). I. 31.
flammans (Cortinarius). I. 127.
flavella (Inocybe). I. 100.
flaveolum (Corticium). I. 231.
flavescens (Hypomyces). I. 955.
flaviceps (Collybia var.). I. 32.
flavida (Russula). I. 60.
flavido-rufum (Entoloma). I. 84.
flavidulum (Agyrium). II. 40.
flavidus (Hymenogaster). I. 281.
flavidus (Lactarius). I. 57.
flavifolius (Cortinarius). I. 132.
flavipes (Hiatula). I. 40.
flavo-cerina (Clitocybe). I. 22.
flavo-crocatum (Scleroderma). I. 279.
flavo-fuscum (Hypoxylon). I. 548.
flavo-marginata (Hypocrea). I. 977.
flavo-punctata (Flammula). I. 107.
flavo-virens (Hypocrea). I. 976.
flavo-virens (Mycena). I. 35.
flavo-virescens (Mycobacidia). II. 66.
flavo-viride (Anthostoma). I. 515.
flavo-viride (Entoloma). I. 84.
flavum (Entoloma). I. 84.
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flavum (Lycoperdon). I. 277.
flavus (Ascophanus). II. 32.
flavus (Hypochnus). I. 242.
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flexipes (Phialea). II. 9
flexuosipes (Boletus). I. 154.
flexuosum (Hyphoderma). II. 531.
floccosum (Blastotrichum). II. 552.
floccosus (Craterellus). I. 218.
floccosus (Leucogaster). I. 281.
floccosus (Mucronoporus). I. 188.
florentinus (Ophiobolus). I. 923.
floridanum (Lophiostoma). I. 1091,
floriformis (Valsa). I. 454.
Flotowianum (Arthothelium). II. 79.
Fockei (Xylaria). I. 524.
fœniculacea (Leptosphæria). I. 763.
fœtens (Heliomyces). I. 70.
fœtidissima (Collybia). I. 30.
Foexiana (Pyrenophora). I. 896.
folhatus (Polyporites). II. 746.
foliicola (Phoma var.). II. 157.
foliicolum (Ceratostoma). II. 483.
foliicolum (Melanconium). II. 473.
folliculata (Leptosphæria). I. 789.
foliorum (Stilbospora). II. 480.
Fontanesiæ (Lophiotrema). I. 1076.
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Forficulæ (Entomophthora). I. 351.
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forojuliensis (Lophiosphæra). I. 1076.
Forquignoni (Cordyceps). I. 999.
Forsteri (Crepidotus). I. 115.
Forsteri (Pleospora). I. 880.

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fossilis (Rhizomorphites). II. 803.
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fossulatus (Pleurotus). I. 49.
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Fourcadei (Phyllosticta). II. 135.
Fourcroyæ (Rabenhorstia). II. 234.
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foveolatum (Helminthosporium). II. 616.
Fragariæ (Coniothyrium). II. 261.
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fragariæformis (Xylaria). I. 529.
fragilis (Kneiffia). I. 217.
fragilis (Macrophoma). II. 195.
fragrans (*Clavaria*). I. 251.
Francevilliana (Stigmatea). I. 661.
Francheti (Amanita var.). I. 1.
franconica (Leciographa). II. 62
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fraxinea (Cercospora). II. 646.
fraxinea (Sphærella). I. 644.
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Fraxini (Actinonema). II. 309.
Fraxini (Ascochyta). II. 297.
Fraxini (Cucurbitaria). I. 918.
Fraxini (Cylindrosporium). II 499.
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Fraxini (Dothiorella). II. 230.
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Fraxini (Leptosphæria) I. 781.
Fraxini (Macrophoma). II. 191.
Fraxini (Phyllosticta). II. 114.
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fuegiana (Leptosphæria). I. 793.
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fuegianum (Coniothyrium). II. 267.
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fuegianum (Graphium). II. 694.
fuegianum (Hysterographium). I. 1121.
fuegianum (Leptothyrium). II. 416.
fuegianum (Lophiostoma). I. 1090.
fuegianum (Lophiotrema). I. 1080.

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gigasporum (Anthostoma). I. 520.
gigasporum (Hebeloma). I. 102.
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gigasporus (Spinellus). I. 536.
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guaraniticum (Glœosporium). II. 454.
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Harioti (Nectria). I. 968.
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Harioti (Ramularia). II. 560.
Hariotiana (Trichosphæria). I. 603.
Hariotianus (Polystictus). I. 183.
Harknessiana (Leptosphæria). I. 779.
Harknessii (Pleospora). I. 879.
Harpali (Laboulbenia). I. 1133.
harposporum (Glœosporium). II. 454.
harposporum (Pleococcum). II. 436.
Hartigii (Pestalozzia). II. 490.
hassiacus (Elaphomyces). II. 80.
Hawkesii (Cordyceps). I. 1001.
Haydeni (Stereum). I. 226.
Haynaldii (Phlyctidium). I. 360.
Haynaldii (Zignoella). II. 860.
Hebeloma (Tricholoma). I. 16.
Hedeomatis (Peronospora). I. 343.
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Hederæ (Acanthostigma). I. 855.
Hederæ (Rhytismites). I. 781.
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hedericola (Hendersonia). II. 319.
Hedycaryæ (Glœosporium). II. 447.
Hegetschweileri (*Ephebella*). II. 70.
Heimerlii (Paryphedria). II. 43.
Helenæ (Nectriella). II. 941.
Helenii (Septoria). II. 369.
Heleocharidis (Stagonospora). II. 335.
Heleocharidis (Vermicularia). II. 226.
Helianthi (Cercospora). II. 628.
Helichysi (Anthostomella). I. 508.
Helichrysi (Camarosporium). II. 345.
Helichrysi (Diplodia). II. 290.
Helichrysi (Diplodina). II. 315.
Helichrysi (Glœosporium). II). 459.
Helichrysi (Leptosphæria). I. 783.
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Helicis (Sphæropsis). II. 252.
helicoides (Sporodesmium). II. 665.
heliotropidatum (Æcidium). II. 324.
Heliotropii (Cercospora). II. 630.
Heliotropii (Cladosporium). II 602.
Heliotropii-europæi (Æcidium). I. 325.
Hellebori (Asterella). I. 398.
Hellebori (Coniothryium). II. 261.
Hellebori (Diplodia). II. 289.
Hellebori (Phoma). II. 165.
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helvetica (Metasphæria). I. 835.
Hemerocallidis (Sphærella). I. 652.
hemicrypta (Diaporthe Eu.). I. 714.
hemicrypta (Leptosphæria). I. 789.
hemileuca (Anthostomella). I. 512.
hemisphærica (Rosellinia). I. 498.
hemisphæricum (Collonema). II. 397.
hendersonioides (Trematosphæria). I. 814.
Hennebergii (Macrophoma). II. 205.
Henningsii (Flammula). I. 108.
Henningsii (Hydnum). I. 210.
Henningsii (Polyporus). I. 167.

Henningsii (Phoma). II. 139.
Henrinquesianum (Melanomma). I. 804.
Henriquesii (Diplodia). II. 290.
Henriquesii (Clavaria). I. 250.
Hepaticarum (Arcangelia). I. 696.
Hepaticarum (Læstadia). I. 588.
Heraclei (Cylindrosporium). II. 502.
Heraclei (Labrella). II. 421.
Heraclei (Ramularia). II. 557.
herbacea (Diatrypella). I. 480.
herbana (Zignoella). I. 861.
herbariorum (Œdocephalum var.). II. 521.
herbarum (Diplodia). II. 290.
herbarum (Helicosporium). II. 681.
herbarum (Leptostroma). II. 420.
herbarum (Mycobacidia). II. 66.
herbarum (Phoma). II. 180.
herbarum (Pleospora). I. 881.
herbarum (Sphæropsis). II. 251.
herbarum (Stilbum). II. 683.
herculea (Xylaria). I. 528.
herculeum (Clasterosporium). II. 607.
Heribaudii (Didymella). I. 663.
Hericium (Rosellinia). I 505.
Herminieræ (Phoma). II. 139.
Herteri (Thelocarpon). I. 948.
Hesperidis (Opiobolus). I. 928.
Hesperidum (Sphærella). I. 630.
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heteracantha (Eutypa). I. 466.
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Heteromeles (Hypoderma). I. 1124.
Heteromeles (Pleosporopsis). II. 406.
Heteromeles (Zukalia). I. 432.
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heterophragmia (Hendersonia). II. 326.
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heterospermus (Sporotrichites). II. 790.
heterospora (Hendersonia). II. 327.
heterospora (Nectria). I. 971.
heterospora (Sphæropsis). II. 256.
heterosporoides (Fusarium). II. 730.
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heterostomum (*Hypoxylon*). I. 572.
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Heuglininum (Cladosporium). II. 603.
hians (Hypoxylon). I. 548.
hiatuloides (Locellina). I. 94.
Hibisci (Phyllosticta). II. 103.
Hibisci (Stilbum). II. 682.
hibiscina (Phyllosticta). II. 103.
hibiscina (Vermicularia). II. 225.
Hieracii (Ramularia var.). II. 559.
Hieracii (Sphærella). I. 620.
Hierochloæ (Leptosphæria). I. 793.
Hieronymi (Vizella). I. 1054.
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Hilariæ (Uredo). I. 333.
Hildebrandi (Fomes). I. 177.
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Hippocastani (Cryptosporium). II. 506.
Hippocastani (Dasyscypha). II. 23.
Hippocastani (Diaporthe Chor.). I. 709.
Hippocastani (Diplodina). II. 313.
Hippocastani (Gnomoniella). I. 575.
Hippocastani (Nectria). I. 961.
Hippocastani (*Phoma*). II. 144.
Hippocastani (Phoma). II. 144.
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Hippoglossi (Macrophoma). II. 199.
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hirsutum (Asteridium). I. 435.
hirta (Hendersonia). II. 328.
hirtella (Berlesiella). I. 914.
hirtellus (Boletus). I. 150.
hirtissima (Tubercularia). II. 705.
hirtulus (Paxillus). I. 136.
Hisingeri (Thelephora). I. 220.
hispida (Cephalotheca). I. 378.
hispidans (Polyporus). I. 171.
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Hochelagæ (Diatrype). I. 473.
Holboelli (Puccinia). I. 299.
Holmbergii (Uromyces). I. 293.
holobapha (Xylaria). I. 523.
holophœa (Chætosphæria). I. 800.
holopogonius (Lentinus). I. 72.
Holoschœni (Actinothyrium). II. 428.
Holoschœni (Chætostroma). II. 736.
Holoschœni (Gloniella). I. 1115.
Holoschœni (Massaria). I. 761.

Holoschœni (Phoma). II. 185.
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Holubyi (Septoria). II. 379.
Holwayanum (Hypoxylon). I. 545.
Holwayi (Hypoxylon). I 549.
Holwayi (Uromyces). I. 294.
Hookeri (Anthracoderma). II. 238.
Hookeri (Coniothyrium). II. 268.
Hookeri (Cortinarius). I. 128.
Hookeri (Hypoxylon). I. 548.
Hookeri (Valsaria). I. 756.
Hordei (Cladosporium). II. 605.
Hordei (Sphærella). I. 655.
Hordei (Ustilago). I. 283.
Hormiscium (Septonema). II. 609.
hormospora (Fenestella). I. 922.
hormosporus (Ophiobolus). I. 926.
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hospitans (Calicium). II. 73.
Houstoniæ (Cercospora). II. 634.
Hrubeschi (Rhytismites). II. 782.
Hu (Septoria). II. 360.
Hulseboschii (Sphæroderma). I. 949.
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humanum (Stilbum). II. 685.
humilis (Clavaria). I. 251.
Humuli (Cicinnobolus). II. 220.
Humuli (Cylindrosporium). II. 504.
Humuli (Diplodina). II. 315.
Humuli (Ophiobolus). I. 926.
Humuli (Phyllosticta). II. 133.
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hungarica (Leptosphæria var.). I. 796.
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hyalodidyma (Melanopsamma). I. 685.
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hydnicolum (Fusarium). II. 730.
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hydrophila (Ceratostomella). I. 574.
hydrophila (Pharcidia). I. 677.
hydrophila (Pleospora). I. 878.
hydrophila (Stagonospora). II. 336.
hydrophila (Xylographa). II. 45.
hydrophilum (Entyloma). I. 286.
hydrophora (Seismosarca). I. 260.
hiemalis (Mollisia). I. 16.
hygrometricus (Geaster). I. 271.
hygrophoroides (Collybia). I. 31.
hygrophoroides (Cortinarius). I. 128.
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hylodes Calosphæria). I. 466.
hylodes (Valsa). I. 466.
hymenomycetes (Excipulites). II. 789.
Hymenophylli (Micropeltis). I. 1071.
hymenorrhizus (Panus). I. 77.
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hyperboreus (Sphærites). II. 752.
Hyperici (Hendersonia). II. 325.
hypericina (Sphærella). I. 621.
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Hypericorum (Botryosphæria). I. 608.
Hyperion (Flammula). I. 105.
Hyphasmatis (Pyrenophora). I. 895.
hypnophilum (Corticium). I. 234.
hypochlorum (Cenangium). II. 36.
hypocoproides (Sordaria). I. 488.
hypocreoides (Nectria). I. 958.
hypocreoideum (Fusarium). II. 729.
hypodermia (Stictis). II. 46.
hypoleucum (Hypoxylon). I. 559.
hypophæa (Melanopsamma). I. 685.
hypophlæa (Didymella). I. 667
hypophlæa (Nummularia). I. 570.
hypophylla (Botrytis) II. 538.
hypophylla (Melasmia). II. 419.
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Hypoxylon (Amphisphæria). I. 746.
hypsophilus (Crepidotus). I. 115.
Hyptidis (Cercospora). II. 630.
hispanica (Dasyscypha). II. 21.
Hyssopi (Phoma). II. 173.
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hysteriiforme (Amerosporium). II. 437.
hysterina (Phoma). II. 154.

hysterioidea (Strumella). II. 734.
hysterioides (Cytosporina). II. 403.
hysterioides (Diatrypella). I. 478.
hysterioides (Diplodina). II. 313.
hysterioides (Gamosporella). II. 238.
hysterioides (Glœosporium). II. 449.
hysterioides (Leptosphæria). I. 782.
hysterioides (Lophiotrema). I. 1077.
hysterioides (*Lophiotrema*). I. 1078.
hysterioides (Nemacyclus). II. 47.
hysterioides (Prosthemiella). II. 498.
hysterioides (Zygnoella). I. 866.
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hystricina (Isaria). II. 688.
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ignobile (Macrosporium). II. 677.
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ignobilis (Torula). II. 573.
ignobilis (Zignoella). I. 866.
ignota (Uredo). I. 334.
Ii (Cercospora). II. 620.
ilicella (Macrophoma). II. 194.
ilicicola (Dothiorella). I. 230.
ilicicola (Phyllosticta). II. 118.
ilicifolia (Venturia). I. 689.
ilicina (Diaporthe Eu.). I. 711.
ilicina (Phoma). II. 150.
ilicinum (Amerosporium). II. 437.
ilicinum (Coniothyrium). II. 264.
Ilicis (Anthostomella). I. 507.
Ilicis (Asterina). I. 386.
Ilicis (Cryptosporella). I. 610.
Ilicis (Otthia) I. 753.
Ilicis (Physalospora). I. 595.
Ilicis (Sphærella). I. 639.
Ilicis (Stagonospora). II. 330.
illudens (Amanita). I. 1.
immersa (Amphisphæria). I. 744.
immersa (*Ceratosphæria*). II 870.
immersa (Sporormia). I. 819.
immersa (Zignoella). I. 864.
Immersæ (Didymella var.). I. 672.
immersum (Dinemasporium). I. 439.
immersum (Hypoxylon). I. 561.
immersum (Olpidium). I. 361.
immersus (Ophiobolus). I. 923.
immutabilis (Diaporthe Eu.). I. 715.
Impatientis (Cercospora). II. 619.
imperialis (Lepiota). I. 3.
imperialis (Pholiota). I. 92.
imperspicua (Botryosphæria). I. 608.
imperspicuum (Acanthostigma). I. 854.
imperspicuum (Asteromidium). II. 338.
imperspicuum (Belonidium). II. 27.
imperspicuum (Dimerosporium). I. 406.
imperspicuum (Hyaloderma). I. 437.
implexa (Ostracoblabe). I. 349.
Implexæ (Phyllosticta). II. 113.
Implexæ (Sphærella). I. 634.
implexum (Lophionema). I. 1094.
implicata (Valsa). I. 453.
impolita (Nectria). I. 961.
impostata (Nectria). I. 966.
imposita (Rosellinia). I. 496.
impressa (Munkiella). I. 1035.
impressellum (Thelocarpon). I. 947.
impudica (Pholiota). I. 92.
impudicus (Marasmius). I. 70.
inæqualis (Trametes). I. 195.
Inandæ (Crepidotus). I. 116.
incana (*Trametes*). I. 194.
incanescens (Sphærella). I. 645.
incarnata (Fusicolla). II. 712
incarnata (Peniophora). I. 241
incarnatum (Corticium). I. 235.
incarnatus (Craterellus). II. 220.
incerta (Patinella). II 52.
incertum (Coniosporium). II. 570.
incisa (Sphærella). I. 650.
inclusum (Odontotrema). II. 46.
incognita (Uredo). I. 332.
incompta (Phoma). II. 146.
incomptus (Ceriomyces). I. 201.
incolor (Licea). II. 89.
incommoda (Phoma). II. 154.
incompletum (Phragmidium). I. 316.
incompta (Diaporthe Tet.). I. 717.
inconcinna (Inocybe). I. 99.
inconspicua (Calonectria). I. 984.
inconspicua (Didymella). I. 664.
inconspicua (Diplodia). II. 284.
inconspicuum (Coniothyrium). II. 267.
inconspicuum (Cylindrosporium). II. 505.
inconstans (Clitocybe). I. 21.
inconstans (Poria). I. 189.
incrassatus (Fomes). I. 176.

increscens (Depazites). II. 786.
incrustans (Camarosporium). I. 347.
incrustans (Coniophora). I. 241.
incrustans (Melanopsamma). I. 684.
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indigoferus (Zygodesmus). I. 581.
indistincta (Valsa). I. 458.
induratus (Rhytismites). II. 780.
indusiata (Stropharia). I. 138.
inæqualis (Eriosphæria). I. 697.
inæqualis (Lizonia). I. 680.
inæqualis (Oospora). II. 513.
infantile (Tricholoma). I. 15.
infectoria (Phyllachora). I. 1013.
infectoria (Pleospora). I. 892.
infelix (Inocybe). I. 96.
infera (Sphærella var.) I. 658.
infernale (Anthostoma). I. 516.
infernalis (Leptosphæria). I 786.
inflata (Botryosphæria). I. 606
inflata (Uredo). I. 331.
inflatus (Ophiobolus). I. 931.
infossa (Phoma). II. 147.
infrequens (Æcidium). I. 321.
infundibuliformis (Campbellia). I. 205.
infundibulifera (Choanophora). I. 339.
infusaria (Nectria). I. 958.
infuscans (Ascochyta). II. 301.
infuscans (Asterella). I. 394.
infuscans (Cercospora). II. 639.
infuscans (Phyllachora). I. 1027.
infuscata (Septoria). II. 370.
infuscata (Scirrhia). I. 1040.
innatum (Coniothyrium). II. 269.
innatum (Sphæronæma). II 215.
innixus (Boletus). I. 153.
innumerabilis (Didymosphæria). I. 729.
inophila (Aposphæria). II. 208.
inops (Leptosphæria var.). I. 763.
inops (Lophidium). I. 1092.
inops (Speira). I. 671.
inops (Torula var.). II. 573.
inquinans (Asterina). I. 388.
inquinans (Nesolechia). I. 55.
inquinans (Pestalozzia). II. 487.
inquinans (Phyllerites). II. 806.
inquinans (Sporodesmium). II. 665.
inquinans (*Thecaphora*). I. 290.
insidens (Anthostoma). I. 520.
insidens (Hysterium). I. 1109.
insidens (*Melogramma*). I. 758.
insidens (Stemphylium). II. 671.
insidiosa (Amanitopsis). I. 2.
insidiosum (Lophiostoma). I. 1090.
insigne (Lachnocladium). I. 254.
insigne (Stereum). I. 222.
insignis (Anularia). I. 82.
insignis (Asterina). I. 384.
insignis (Cordyceps). I. 998.
insignis (Craterellus). I. 219.
insignis (Gloniopsis). I. 1117.
insignis (Hypocrea). I. 974.
insignis (Meliolopsis). I. 375.
insignis (Metraria). I. 82.
insignitum (Stereum). I. 226.
insolita (Geopyxis). II. 3.
inspersa (Leciographa). I. 62.
inspissum (Melanomma). I. 809.
instabilis (Cortinarius). I. 118.
insulare (Amerosporium). I. 438.
insulare (Hysterium). I. 1109.
insularis (Linospora). I. 935.
insularis (Metasphæria). I. 843.
insularis (Mycena). I. 38.
insulare (Mytilidion). I. 1112.
insularis (Phoma). II. 149 *).
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insularis (Pleospora). I. 888.
insularis (Stagonospora). II. 336.
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intermediellum (Thelocarpon). I. 947.
intermedium (Hypoxylon). I. 556.
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*) Præcedente *Phoma insularis* Speg. (Aug. 1887), hæc dicatur *Phoma Mussei* Sacc.

intermedius (Fomes). I. 177.
intermedius (Ophiobolus var.). I. 924.
intermedius (Xylomites). II. 799.
intermixta (Sphærulina). I. 848.
intermixta (Sphærella). I. 626.
intermixtulum (Thelocarpon). I. 947.
interpungens (Sphærites). II. 760.
interrupta (Asterina). I. 381.
interrupta (Diaporte Tet.). I. 718.
interruptus (Polystictus var.). I. 187.
interseminata (Darluca). II. 310.
interstitialis (Phyllachora). I. 1021.
interstitialis (Uredo). I. 331.
intertextus (Rhizomorphites). I. 802.
intextum (Celidium var.). II. 76.
intorta (Hemiarcyria). I. 99.
intricata (Asterella). I. 395.
intricata (Lasiosphæria). I. 852.
intricata (Lophiosphæra). I. 1075.
intricata (*Lophiosphæra*). I. 1076.
intricatus (Sporotrichites). I. 790.
intumescens (Sphærites). I. 770.
Inulæ (Ovularia). II. 541.
involutus (Lactarius). I. 56.
Ipomœæ (Cercospora). II. 633.
Ipomœæ (Marsonia). II. 479.
Ipomœæ (Macrophoma). II. 194.
Ipomœæ (Phyllosticta). I. 127.
Ipomeæ-panduratæ (Cystopus). I. 341.
iridicola (Gnomoniella). I. 577.
Iridis (Ascochyta). II. 307.
Iridis (Cylindrosporium). II. 504.
Iridis (Diplodina). II. 316.
Iridis (Fusarium). II. 725.
Iridis (Læstadia). I. 588.
Iridis (Phoma). II. 182.
Iridis (Scolecotrichum). II 600
Iridis (Septoria). II. 382.
Iridis (Stagonospora). II. 334.
Iridum (Phoma). II. 182.
irinus (Polyporus). I. 165.
irpicoides (Kneiffia). I. 216.
irregulare (Phlyctidium). I. 360.
irregulare (Gloeosporium). II. 452.
irregularis (Trematosphæria). I. 813.
irregularis (Xylomites). II. 800.
irregulare (Hypoxylon). I. 558.
isabellina (Poria). I. 192.
isabellinum (*Chromosporium*). II. 511.
isabellinum (Tricholoma). I. 13.
isidioides (Mucronoporus). I. 188.
islandica (Venturia). I. 692.
islandica (Pleospora). I. 889.
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lophiostomoides (Trematosphæria). I. 813.
lophospora (Didymella). I. 666.
Loranthi (Clypeolum). I. 1062.
Lorentzii (Marsonia). II. 478.
Loti (Phoma). II. 157.
Lubiniæ (Septoria). I. 376.
lucens (Lembosia). I. 1107.
lucida (Phyllachora). I. 1021.
lucidus (Polyporites). I. 747.
ludens (Eutypa). I. 466.
ludibunda (Meliola). I. 431.
Lodoviciana (Anthostomella). I. 509.
Ludoviciana (Phyllosticta). II. 118.
Ludovicianum (Leptostroma). II. 420.
Ludwigiæ (Cercospora). II. 625.
Ludwigianum (Dimerosporium). I. 405.
lugubris (Sphæropsis). II. 258.
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lunulatum (Cryptosporium). II. 506.
Lupini (Diaporthe Tet.). I. 722.
Lupini (Didymella). I. 662.
Lupini (Macrophoma). I. 193.
Lupini (Phoma). II. 170.
Lupini (Sphæropsis). II. 251.
Lupini (Valsa). I. 458.
lupulina (Septoria). II. 380.
lurida (Clavaria). I. 249.
lurida (Laschia). I. 205.
luridum (Phacidium). II. 48.
lusitanica (Didymosphæria). I. 737.
lutescens (Cortinarius). I. 129.
lutescens (Pleonectria). I. 992.
lutescens (Taphrina). II. 68.
lutea (Cryptica). II. 82.
lutea (Isaria). II. 691.
lutea (Octaviania). I. 280.
lutea (Russula var.). I. 63.
lutea (Sordaria). I. 488.
luteo-alba (Poria). I. 190.
luteola (Mitrula). II. 1.
luteo-marginatus (Pluteus). I. 83.
luteo-olivacea (Hypocrella). I. 1003.
luteo-olivaceus (Polystictus). I. 188.
luteo-pallens (Mycena). I. 37.

lutescens (Eutypella). I. 463.
luteus (Cortinarius). I. 129.
luteus (Hygrophorus). I. 53.
Luzula (Cylindrium). II. 518.
Luzulæ (Hendersonia). II. 328.
Luzulæ (Leptostroma). II. 421.
Luzulæ (Phomatospora). I. 589.
Luzulæ (Phyllachora). I. 1025.
Luzulæ (Septoria). II. 384.
luzulina (Metasphæria var.). I. 841.
Lychnidis (Septoria). II. 364.
Lycii (Cercospora). II. 649.
Lycii (Didymosphæria). I. 729.
Lycii (Leptosphæria). I. 764.
lycogaloides (Penzigia). I. 569.
Lycopersici (Ascochyta). II. 304.
Lycopersici (Bivonella). I. 989.
Lycopersici (Cephalothecium). II. 549.
Lycopersici (Cladosporium). II. 602.
Lycopersici (Macrosporium). II. 676.
Lycopersici (Phoma). II. 175.
Lycopersici (Phyllosticta). II. 131.
Lycopersici (Sphæronæma). II. 216.
Lycopersici (Sporocybe). II. 693.
lycopersicum (Oidium). II. 520.
Lycopi (Cercospora). II. 630.
Lycopi (Leptothyrium). II. 415.
Lycopi (Phyllosticta). II. 130.
lycopodicola (Leptosphæria). I. 796.
Lycopodii (Sphærella). I. 658.
lycopodinum (Coniothyrium). II. 267.
lycotropum (Fusidium). II. 515.
Lygodesmiæ (Æcidium var.). I. 323.
Lynchii (*Uncinula*). I. 367.
Lyndonvillensis (Phoma). II. 171.
Lysimachiæ (Cercospora). II. 631
Lysimachiæ (Phoma). II. 171.
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macer (Fomes). I. 178.
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Maclureæ (Metasphæria). I. 838.
Maclureæ (Ovularia). II. 540.
Maclureæ (Phyllosticta). II. 119.
Maclureæ (Seynesia f.). I. 1065.
Maclureæ (Sphærella). I. 648.
Maclureæ (Sporodesmium). II. 666.
Macouniana (Rosellinia). I. 505.
Macowiana (Sphærella). I. 630.
Macounii (Diatrype). I. 473.
macrasca (Phyllachora var.). I. 1007.
macrocapsa (Phoma). II. 180.
macrocarpa (*Meliola*). I. 430.
macrocarpum (Stilbum). II. 681.
macrocenangium (*Hypoxylon*). I. 573.
macrochætum (Amerosporium). II. 438.
Macrochloæ (Macrophoma). II. 200.
macroguttata (Cercospora). II. 628.
macropoda (Robillarda). II. 308.
macropora (*Hexagonia*). I. 185.
macrorrhina (Galera). I. 114.
macrorrhyncha (Cytosporella). II. 243.
macrosperma (Macrophoma). II. 189.
macrosperma (Septoria). II. 385.
macrospora (Chætophoma). II. 217.
macrospora (Melophia). II. 429.
macrospora (Metasphæria). I. 829.
macrospora (Morenoella). I. 1096.
macrospora (Nummularia). I. 571.
macrospora (Sclerospora). I. 342.
macrospora (Virgaria). II. 580.
macrosporoides (Sporodesmium). I. 667.
macrosporum (Belonidium). II. 27.
macrosporum (Cephalothecium). II. 549.
macrosporum (Chætomium). I. 484.
macrosporum (Coryneum var.) II. 483.
macrosporum (Dendryphium). II. 664.
macrosporum (Enteridium). II. 90.
macrosporum (Fusicoccum). II. 240.
macrosporum (Rhinocladium). II. 585.
macrosporum (Tichothecium). I. 724.
macrosporus (Boletus). I. 157.
macrostomella (*Sphæria*). I. 866.
macrostomoides (Lophiostoma). I. 1086.
macrotheca (Metasphæria). I. 842.
macrothele (Teichospora). I. 899.
macrotrichia (Herpotrichia). I. 857.
Macrozamiæ (Cryptosphærella). I. 471.
macrum (Hysterographium var.). I. 1120.
Macula (Nummularia). I. 570.
maculæformis (Xylomites). II. 798.
maculans (Chætophoma). II. 218.
maculans (Depazites). II. 787.
maculans (Leciographa). II. 62.
maculans (Leptostroma). II. 421.
maculans (Physalospora). I. 509.
maculans (Pisomyxa). I. 374.
maculans (Rhabdospora). II. 393.
maculans (Sphærella). I. 646.
maculans (Sphæropsis). II. 257.
maculans (Uredo). I. 332.
maculare (Aulographum). I. 1102.
macularis (*Polycystis*). I. 290.

macularis (*Sphærella*). I. 723.
maculata (Micropeltis). I. 1070.
maculata (Mycena). I. 36.
maculatum (Heterosporium). II. 660.
maculatus (Cortinarius). I. 122.
maculatus (Lactarius). I. 57.
maculatus (*Polyporus*). I. 161.
maculatus (Xylomites). I. 792.
maculicola (Diplodia). II. 276.
maculicola (Linospora). I. 937.
maculicola (Septoria var.). II. 379.
maculicola (Sphærella). I. 620.
maculicolum (Graphiothecium). II. 697.
maculicolum (Scolecotrichum). II. 601.
maculifer (Rhytismites). II. 781.
maculifer (Sphærites). II. 763.
maculifer (Xylomites). I. 794.
maculifera (Septoria). II. 377.
maculiformis (Didymella). I. 669.
maculiformis (Macrophoma). II. 203.
maculiformis (Sphærella). I. 631.
maculosa (Phæosphærella). I. 723.
maculosa (Zukalia). I. 435.
madagascarense (Microthyrium). I. 1059.
Mæsæ (Asterina). I. 381.
magellanica (Bovista). I. 275.
magellanica (Cercospora). II. 642.
magellanica (Ceuthospora). II. 250.
magellanica (Cytospora). II. 245.
magellanica (Diaporthe Tet.). I. 719.
magellanica (Gnomonia). I. 675.
magellanica (Phyllosticta). II. 101.
magellanica (Placosphæria). II. 237.
magellanica (Pleospora). I. 877.
magellanica (Rosellinia). I. 502.
magellanica (Sphærella). I. 627.
magellanicum (Cystothyrium). I. 427.
magellanicum (Fusidium). II. 516.
magellanicum (Hypoxylon) I. 560.
magellanicum (Hysterographium). I. 1121.
magellanicum (Lophiotrema). I. 1079.
magellanicum (Tricholoma). I. 18.
magellanicus (Cortinarius). I. 119.
Magni-Ducis (Phlyctospora). I. 281.
magnifructua (Macrophoma). II. 198.
magnispora (Diaporthe Chor.). I. 707.
Magnoliæ (Anthostomella). I. 511.
Magnoliæ (Gloeosporium). II. 450
Magnoliæ (Gnomonia). I. 674.
Magnoliæ (Læstadia). I. 581.
magnum (Gelatinosporium). II. 404.
magnum (Leptothyrium). II. 417.
Magnusiana (Lepiota). I. 7.
Magnusiana (Leptosphæria). I. 787.
Magnusiana (Phlyctæna). II. 401.
Magnusiana (Sclerospora), I. 341.
Magnusii (Amphisphæria). I. 742.
Magnusii (Endomyces). II. 70.
Magnusii (Phoma). II. 181.
Majanthemi (Cercospora). II. 654.
Majanthemi (Phoma). II. 184.
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major (Empusa var.). I. 351.
major (Hypocrea var.). I. 973.
major (Leptosphæria var). I. 770.
major (Leptosphæria var.). I. 796.
major (Melanconiella var.). I. 755.
major (Meliola var.). I. 424.
major (Munkiella var.). I. 1034.
major (Phyllosticta var.). II. 133.
major (Rhabdospora var.). II. 393.
major (Septoria var.). II. 354.
majuscula (Ceratostomella var.). I. 563.
majuscula (Sphærella). I. 621.
majuscula (Valsaria). I. 755.
majusculum (Thelocarpon). I. 947.
Mahagoni (Dothiorella). II. 231.
Mahoniæ (Cucurbitaria). I. 917.
mahoniæcola (Phyllosticta). II. 100.
malacense (Myxotrichum var.). II. 543.
malacotricha (Meliola). I. 425.
Malbrancheana (Læstadia). I. 577.
Malbranchei (Diaporthe Eu.). I. 713.
Malcolmiæ (Macrophoma). II. 193.
Mali (Botryodiplodia). II. 294.
Mali (Ceratostomella). I. 573.
Mali (Cercospora). I. 643.
Mali (Didymella). I. 667.
Mali (*Læstadia*). I. 582.
Mali (Micropera). II. 404.
Mali (Phyllosticta). II. 109.
Mali (Stagonospora). II. 331.
Malinvernianum (Epicoccum). II. 732.
Malleus (Lepiota). I. 3.
Malloti (Cercospora). II. 650.
Malorum (Fusicoccum). II. 239.
Malorum (Macrophoma). II. 197.
Malorum (Ovularia). II. 540.
Malpighiæ (Macrophoma). II. 196.
Malvacearum (Gibberella). I. 988.
Malvæ (Alternaria). II. 679.
Malvarum (Colletotrichum). II. 468.
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Mamillariæ (Phoma). 172.

Mamma (Rosellinia). I. 497.
manca (Meliola). I. 419
Mantegazziana (Macrophoma). II. 201.
Marchaliana (Melanospora). I. 952.
Marchaliana (Metasphæria). I. 844.
Marchaliana (Sporormia). I. 819.
Marchalianum (Belonidium). II. 27.
Marchalii (Delitschia). I. 747.
Marchalii (Rhynchomyces). II. 411.
Marconii (Dendrophoma). II. 211.
margaritaceum (Eurotium). I. 372.
marginale (Gloeosporium). II. 457.
marginalis (Cercospora). II. 642.
marginalis (Diaporlhe Chor). I. 704.
marginalis (Phyllosticta). II. 118.
marginata (Haplosporella). II. 273.
marginata (Lenzites). I. 80.
marginella (Poria). I. 194.
Mariæ (Sphærella). I. 626.
marina (Leptosphæria). I. 797.
marina (Leptosphæria). I. 789 *).
maritima (Pleospora). I. 893.
maritimus (Polyporus). I. 172.
Marrubii (Diplodia var.). II. 290.
Marrubii (Hendersonia). II. 326.
Marrubii (Ramularia). II. 560.
Martelliana (Peniophora). I. 239.
martialis (Cordyceps). I. 1000.
martialis (Lepiota). I. 10.
Martiniæ (Septoria). II. 370.
Martiniana (Septoria). II. 351.
Martinicæ (Discina). II. 4.
martinicense (Helminthosporium) II. 612.
Martyris (Munkia). II. 408.
Marumiæ (Diplodia). II. 283.
mascarensis (Xylaria). I. 523.
Massarina (Metasphæria). I. 852.
massarioides (Didymosphæria). I. 729.
massarioides (Lophiotrema). I. 1080.
Massinkii (Rosellinia). I. 500.
Matricariæ (Perisporium). I. 412.
Matthiolæ (Didymosphæria). I. 730.
Matthiolæ (Helminthosporium). I. 614.
Matthiolæ (Phoma). II. 167.
Matthiolæ (Rhabdospora). II. 390.
Matthiolæ (Zignoella). I. 866.
matthiolicola (Phoma). II. 166.
maura (Pestalozzia). II. 499.
mauritanica (Nummularia). I. 572.
mauritanicum (Microthyrium). I. 1058.
Mauritiæ (Cyphella). I. 245.
maviensis (Xerotus). I. 78.
maxima (Tuberculariа). II. 710.
Maximi (Phyllosticta). II. 115.
maximum (Hydnum). I. 208.
maximus (Lentinus). I. 73.
maydina (Sphærella). I. 656.
Maydis (Cercospora f.). II. 656.
Maydis (Chætophoma). II. 218.
Maydis (Pleospora). I. 887.
Mayri (Coprinus). I. 144.
Mayteni (Æcidium). I 320.
Mayteni (Cytospora). II. 248.
Mayteni (Phyllosticta). II. 111.
Mayteni (Septoria). II. 355.
Mayteni (Sphærella). I. 632.
maytenicola (Septoria). I. 355.
mbaiense (Hypoxylon). I. 547.
media (Clitocybe). I. 20.
media (Cœlosphæria). I. 444.
media (Phoma). II. 184.
media (Septoria). II. 379.
Medicaginis (Cercospora). II. 622.
Medicaginis (Diplodia). II. 289.
Medicaginis (Gloeosporium). II. 459.
mediellum (Coniothyrium). II. 262.
mediterraneus (Sphærites). II. 761.
medium (Leptothyrium). II. 412.
medium (Myrothecium). II. 737.
Medusæ (Ophiobolus). I 932.
megaloporus (Polystictus var.). I. 182.
megalospora (Diaporthe Eu.). I. 712.
megalospora (*Nectria*). I. 412.
megalospora (Zignoella). I. 868.
megalotheçia (Seynesia). I. 1067.
megalyna (Melaspilea). II. 58.
Megarrhizæ (Didymella). I. 662.
megasperma (Macrophoma). II. 196.
megastoma (Diatrype). I. 475.
meizospora (Morenoella var.). I. 1095.
mela (Eutypa). I. 466.
melachroa (Botryosphæria). I. 607.
melaleuca (Hypocrea). I. 979.
Melaleucæ (Læstadia). I. 581.
melaleucoides (Tapesia). II. 18.
Melampyri (Leptothyrium). II. 415.

*) Præcedente *Leptosphæria marina* Rostr., præsens dicatur *Leptosphæria Treatiana* Sacc.

Melampyri (Marsonia). II. 479.
melanaspis (*Hypoxylon*). I. 573.
melanaspis (*Hypoxylon*). I. 542.
melaniceps (Entoloma). I. 85.
melanococca (Sphærella). I. 616.
melanommoides (Lophidium). I. 1092.
melanophæa (Niptera). II. 25.
melanopus (Isaria). II. 691.
melanosporioides (Ceratostoma) I. 482.
melanosticta (Anthostomella). I. 510.
melanosticta (Seynesia). I. 1066.
melanotes (Anthostoma). I. 517.
melanotrichum (Myxosporium). II. 465.
melanura (Xylaria). I. 537.
melaspileoides (Karschia). II. 56.
Melastomacearum (Meliola). I. 414.
Melastomacearum (Microthyrium). I. 1056.
Melastomacearum (Phyllosticta). II. 121.
Melastomacearum (Vermicularia). II. 224.
Melastomatis (Septoria). II. 355.
Melastomatum (Septoria). II. 355.
Melastomatum (Stigmatea). I. 661.
Meliæ (Cercospora). II. 639.
Meliæ (Melogramma). I, 824.
Meliæ (Phyllosticta). II. 123.
Melianthi (Chætophoma). II. 217.
Melianthi (Phyllachora). I. 1013.
Meliloti (Cercospora). II. 622.
Meliloti (Septoria). II. 362.
melina (Trematosphæria). I. 811.
meliolicolum (Dimerosporium). I. 408.
melioloides (Aulographum). I. 1101.
melioloides (Calonectria). I. 982.
melioloides (Dimerosporium). I. 402.
melioloides (Niptera?). II. 25.
melioloides (Ophiobolus). I. 931.
melioloides (Parodiella). I. 412.
Melissophylli (Phyllosticta). II. 131.
melleo-pallens (Leptonia). I. 87.
Mellisii (Xylaria). I. 526.
Melonis (Didymella). I. 662.
melophthorum (Scolecotrichum). II. 599.
membranacea (Micropeltis). I. 1069.
membranaceum (Sistotrema). I. 213.
membranaceus (Zigodesmus). II. 581.
membraniceps (Marasmius). I. 67.
mendax (Pleospora). I. 874.
menieri (Lepiota). I. 4.
menispermi (Amerosporium). II. 436.
menispermi (Cercospora). II. 618.
menispermi (Microsphæra). I. 369.
Menispermi (Phyllosticta). II. 129.
Menispermi (Phyllachora). II. 1016.
Menispermi (Valsa). I. 453.
mentiens (Hebeloma). I. 103.
Mentzeliæ (Phyllosticta). II. 133.
Mentzeliæ (Septoria). II. 376.
Menziesii (Geaster). I. 272.
Mephistopheles (Stropharia). I. 139.
Mercurialis (Nectria). I. 969.
Mercurialis (Phoma). II. 180.
meridionale (*Lophiostoma*). I. 1075.
Meschuttii (Melanconiella). I. 754.
mesentericus (Dacryomyces). I. 259.
mesopoda (Fomes var.). I 178.
Mespili (Ascochyta). II 298.
Mespili (Coniothyrium var.). II. 261.
Mespili (Hendersonia). II. 320.
Mespili (Massariella var.). I. 739.
Mespili (Myxosporium). II. 464.
metableticum (Camarosporium). II. 347.
metæformis (Xylaria). I. 535.
metallica (Prototrichia). II. 97.
Metrosideri (Phyllosticta). II. 110.
mexicanum (Schizophyllum). I. 81.
mexicanus (Ceriomyces). I. 202.
Mezerei (Glœosporium). II. 454.
micacea (Massarina). I. 825.
micans (Chloridium). II. 594.
Michelii (Phyllachora). I. 1007.
microcarpa (Ceratostomella). I. 573.
microcarpa (Diaporthe Chor.). I. 707.
microcarpa (Eutypella). I. 462.
microcarpa (Tichothecium var.). I. 727.
microcarpum (Hypoxylon var.). I. 545.
microcarpum (Polycarpum). I. 289.
microcephala (Kretzschmaria). I. 567.
microceras (Xylaria). I. 530.
microchæta (Venturia). I. 694.
microchæta (Vermicularia). II. 224.
microdoma (Ceratosphæria). I. 871.
micromegala (Macrophoma). II. 197.
micromegas (Naucoria). I. 111.
micropunctum (Æcidium). I. 322.
micropus (Kretzschmaria). I. 565.
microscopica (Ditopella). I. 602.
microscopica (Læstadia). I. 583.
microscopica (Leptosphæria). I. 787.
microscopica (Moreñoella). I. 1096.
microscopica (Sphærella). I. 651.
microscopica (Tremella). I. 258.
microscopicum (Dicoccum). II. 596.
microscopicum (Glœosporium). II. 458.

microsorum (Dendrodochium). II. 708.
microsperma (Calosphæria). I. 447.
microsperma (Næmospora). II. 507.
microsperma (Xylaria var.). I. 526.
microspermum (Fusicoccum). II. 241.
microspermum (Microthyrium). I. 1057.
microspermus (Pleurotus). I. 47.
microspila (Lepiota). I. 10.
microspila (Pharcidia). I. 678.
microspila (Phyllosticta). I. 107.
microspilum (Cylindrosporium). II. 498.
microspora (Ascochyta). II. 304.
microspora (Asterostomella). II. 424.
microspora (Glenospora). II. 586.
microspora (Grandinia). I. 215.
microspora (Hymenula). II. 713.
microspora (Meliola). I. 426.
microspora (Monilia). II. 517.
microspora (Pestalozzia). II. 489.
microspora (Phoma). II. 177.
microspora (*Phoma*). II. 186.
microspora (Phyllosticta var.). II. 124.
microspora (Pirottæa). II. 19.
microspora (Rhabdospora). II. 392.
microspora (Scirrhia). I. 1040.
microspora (Sorokina). II. 42.
microspora (Sphærella var.). I. 615.
microspora (Sphærostilbe). I. 972.
microspora (Uredo). I. 330.
microspora (Ustulina). I. 542.
microspora (Venturia). I. 694.
microsporella (Diplodia). II. 283.
microsporella (Hymenula). II. 714.
microsporella (Phoma). II. 156.
microsporum (Cladosporium). II. 603.
microsporum (Dimerosporium). I. 408.
microsporum (Leptothyrium). II. 415.
microsporum (Myxosporium). II. 464.
microsporum (Schizostoma). I. 1074.
microsporus (Dacryomyces). I. 260.
microsporus (Plenodomus). II. 213.
microsticta (Hendersonia). II. 327.
microstictica (Didymosphæria). I. 738.
microstictoides (Coryneum). II. 484.
microstictum (Coryneum). II. 481.
microstictum (*Hypoxylon*). I. 573.
microstigma (*Sphæritis*). II. 760.
microstroma (Anthostoma). I. 521.
microstoma (Chætophoma). II. 216.
microstoma (Cytospora). II. 244.
microstomum (Dimerosporium). I. 403.
microstomum (Erythrocarpum). I. 950.
microtheca (Calosphæria). I. 449.
microtheles (Uredo). I. 328.
microthelia (Physalospora). I. 600.
microthyrioides (Asterina). I. 380.
Mikaniæ (Cercospora). II. 629.
Mikaniæ (Septoria). II. 356
miliaria (Nectria). I. 959.
militaris (Mycena). I. 37.
millepunctata (Macrophoma). II. 195.
millepunctata (Phoma). II. 160.
Milleri (Rhytismites). II. 784.
milliarius (Sphærites). II. 753.
milliarius (Xylomites). II. 801.
Mimosæ (Fusidium). II. 516.
Mimuli (Cercospora). II. 631.
Mimuli (Septoria). II. 378.
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pallidum (Myxosporium). II. 465.
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papillatum (Collonema). II. 397.
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parasiticum (Lophiotrema). I. 1082.
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*) Præcedente homonyma specie Ellisii et Kell. (1887), præsens dicatur *Fusarium Fautreyi* Sacc.

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solanicola (Sarcinella). II. 680.
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solidaginicola (Septoria). II. 372.
Solidaginis (Asterina). II. 219.

solidaginis (Phoma). II. 169.
Solidaginis (Physalospora). I. 593.
Solierii (Macrophoma). II. 202.
Solimani (Cercospora) II. 623.
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solitaria (Psathyra). II. 143.
solitarius (Sphærites). II. 769.
Sollæ (Chætophoma). II. 216.
Solmsii (Hypocrea). I. 979.
Somniferi (Alternaria var.). II. 679.
Sonchi-oleracei (Ramularia). II. 558.
Sophoræ (Coniothecium). II. 669.
Sophoræ (Phyllosticta). II. 104.
Sophoræ (Sphærella). I. 630.
Sorbi (Graphium). II. 695.
Sorbi (Pestalozzia). II. 486
Sorbi (Septoria). II. 351.
sorbicola (Cenangella var.). II. 38.
sorbinum (Hormiscium). II. 575.
Soldanellæ (Septoria var.) II. 377.
sordaria (Rosellinia). I. 501.
sordescens (Peniophora). I. 240.
sordida (Diatrype). I. 476.
sordida (Flammula). I. 104.
sordida (Phyllachora). I. 1008.
sordidissimus (Polystictus). I. 186.
sordidula (Phyllosticta). II. 105.
sordidula (Sphærella). I. 614.
sordidula (Zukalia). I. 432.
sordidum (Melanomma). I. 810
sordidus (Boletus). I. 158.
Sorghi (Cercospora). II. 656.
Sorghi (Fusicladium). II. 599.
Sorghi (Uredo). I. 333.
soriformis (Phyllosticta). II. 121.
Sorokinei (Olpidiopsis). I. 362.
Sorokinianum (Helminthosporium). II. 615.
sororcula (Meliola). I. 418.
sororcula (Phyllachora). I. 1015.
sororium (Lophiostoma var.). I. 1087.
sorosporioides (Sporodesmium). II. 665.
Sowerbyii (Cryptospora). I. 939.
spadiceo-niger (Ascophanus). II. 33.
spadiceus (Hypomyces). I. 954.
spaniotrichum (Macrosporium). II. 675.
sparassoides (Polyporus). I. 167.
sparganicola (Sordaria). I. 489.
Sparganii (Metasphæria) I. 840.
Sparganii (Pleospora). I. 875.
sparsa (Cryptovalsa). I. 472.
sparsa (Diaporthe Chor.). I. 706.
sparsa (*Diaporthe*). I. 713.
sparsa (Hendersonia). II. 328.
sparsipila (Vermicularia). II. 224.
sparsum (Hyphoderma). II. 531.
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sparsum (Phragmidium). I. 315.
Spartii (Anthostomella). I. 507.
Spartii (Cucurbitaria). I. 916.
Spartii (Diplopeltis). II. 436.
Spartii (Lophiostoma). I 1086.
Spartii (Massarina). I. 824.
Spartii (Metasphæria). I. 831.
Spartii (Rhabdospora). II. 388.
Spartii (Septoria). II. 350.
spartiicola (Macrophoma). II. 190.
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Spartinæ (Ascochyta). II. 307.
Spartinæ (Leptosphæria). I. 790.
Spartinæ (Meliola). I. 427.
Spartinæ (Phyllosticta). II. 137.
Spartinæ (Sphærella). I. 655.
spatharum (Didymosphæria). I. 735.
spathuliformis (Clavaria). I 250.
speciosus (Boletus). I. 154.
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spectabilis (Phacidites). II. 779.
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Spegazziniana (Pleospora). I. 886.
Spegazzinianum (Stilbum). II. 682.
Spegazzinianus (Geaster). I. 272.
Spegazzinii (Glœosporium). II 449.
Spegazzinii (*Tubercularia*). II. 721.
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spermogoniopsis (Fusarium). II. 729.
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Sphærella (*Oospora*). II. 513.
sphærelloides (Cystothyrium). II. 427.
sphærelloides (Metasphæria). I. 826.
sphærelloides (Pleospora). I. 893.
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sphæricum (Dematium). II. 590.
Sphæritæ (Olpidium). I. 361.
sphæroboloides (Nectria). I. 961.
sphærocarpa (Basidiella). II. 698.
sphærodermoides (Melanospora). I. 950.
sphæroides (Rhabdospora). I. 388.
sphæroideum (Fusarium). II. 723.
sphæropsidea (Phyllosticta). II. 106.
sphæropsideum (Sphæronæma). II. 214.
sphærosperma (Macrophoma). II. 200.
sphærosperma (Phoma), II. 187.

sphærosperma (Phyllachora). I. 1027.
sphærospora (Botrytis). II. 328.
sphærospora (Chilonectria). I. 946.
sphærospora (Clavaria). I. 248.
sphærospora (Diatrype). I. 474.
sphærospora (Lagerheima). I. 53.
sphærospora (Phyllachora). I. 1029.
sphærospora (Sphæropsis). II. 252.
sphærotheca (Asterina). I. 383.
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sphærotheca (Rhizophidium). I. 362.
sphæriiforme (Fusarium). II. 723.
Sphærula (Cytospora). II. 247.
Sphærula (Trichopeziza). II. 20.
Sphagni (Lasiosphæria). I. 853.
Sphagni (Lizonia). I. 682.
Sphagni (Tilletia). I. 286.
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Sphyridiana (Leptosphæria). I. 796.
Sphyridii (Karschia). II. 58.
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spiculiferum (Helminthosporium). II. 614
spiculosa (Septoria). II. 383.
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Spinaciæ (Colletotrichum). II. 469.
spinicola (Læstadia). I. 582.
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Spinosæ (Phyllosticta). II. 103.
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spinulosa (Cordella). II. 586.
spinulosa (Enchnosphæria). I. 853.
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Spirææ (Camarosporium). II. 340.
Spirææ (Diplodina). II. 313
Spirææ (Dothiopsis). II. 228.
Spirææ (Leptosphæria). I. 778.
Spirææ (Otthia). I. 752.
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spiralis (Coëmansia). II. 547.
spiralis (Streptotrichites). II. 790.
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splendens (Hypocrea). I. 973.
splendida (Godronia). II. 37.
Spongia (Mucronoporus). I. 188.
spongiosum (Stereum). I. 224.
Sporastatiæ (Didymosphæria). I. 739.
Sporoboli (Leptosphæria). I. 790.
sporotrichoides (Botrytis). II. 539.
sporotrichoides (Vertillium). II. 546.
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Squamula (Stereum). I. 223.
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squamulosus (Polyporus). I. 168.
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Stachydis (Ramularia). II. 560.
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Staphyleæ (Coniothyrium). II. 263.
Staphyleæ (Cytospora). II. 246.
Staphyleæ (Cytosporina). II. 403.
Staphyleæ (Hendersonia). II. 318.
Staphyleæ (Phoma). II. 150.
Staphyleæ (Phyllosticta). II. 122.
Staphyleæ (Sphæropsis). II. 253.
Staphyleæ (Sphærulina). I. 848.
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staphylina (Sphærella). I. 634.
staphylinus (Ophiobolus). I. 930.
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Stigma (Tichothecium). I. 724.
stigmariæformis (Xylomites). II. 794.
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Stigmella (Dasyscypha). II. 21.
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stilbosporioides (Depazites). II. 787.
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Stillingiæ (Cercospora). II. 650.
Stillingiæ (Phyllosticta). II. 114.
Stipæ-pennatæ (Hendersonia). II. 328.
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stipitata (Hemiarcyria). II. 98.
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Steinii (Ophiobolus). I. 933.
Steironematis (Leptosphæria). I. 774.
Stellariæ (Isariopsis). II. 700.
Stellariæ (Leptosphæria). I. 769.
Stellariæ (Leptosphæria). I. 783.
Stellariæ (Ovularia). II. 542.
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stellata (Asterina). I. 391.
stellatus (Æcidites). II. 749.
stellulata (Eutypella). I. 464.
stellulata (Valsaria). I. 757.
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Stenhammariæ (Heterosporium). II. 658.
Stenhammariæ (Septoria). II. 378.
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Stenogramma (Gloniella). I. 1114.
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stenospora (Clavularia). II. 686.
stenospora (Kneiffia). I. 217.
stenospora (Marsonia). II. 477.
stenospora (Meliola). I. 423.
stenospora (Pleospora). I. 889.
stenospora (Trichocrea). II. 410.
stenosporus (Ophiobolus). I. 927.
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stenostomum (Lophiostoma). I. 1083.
Stenotaphri (Phyllosticta). II. 137.
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Stephanotidis (Phyllosticta). II. 132.
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stercoreus (Thelebolus). II. 34.
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Sterculiæ (Dothidites). II. 771.
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stereocaulina (Conida var.). II. 75.
stereoides (Thelephora). I. 221.
Stereorum (Hypocrea). I. 974.
stolonifera (Ramularia). II. 554.
stomaticola (Phyllosticta). II. 137.
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stomatophila (Cercosporella). II. 564.
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Straussii (Venturia). I. 689.
striæformis (Cercospora). II. 655.
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Striola (Cystotricha). II. 317.
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striolatus (Cortinarius). I. 130.
Strobi (Macrophoma). II. 202.
Strobilanthis (Æcidium). I. 321.
strobiligena (Hariotia). I. 672.
strobiligenum (Glonium). I. 1103.
strobilina (Dothiorella). II. 233.
strobilina (Hypocrea). I. 973.
strobilina (Strumella). II. 733.
strobilinum (Camarosporium). II. 344
strobilinum (Chromosporium). II. 510.
strobilinum (Sporonema). II. 435.
stromaticum (Coniosporium). II. 570.
stromaticus (Crepidotus). I 116.
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strychnicola (Amphisphæria). I. 744.
strychnicola (Gloniella). I. 1112.
Studeriana (Flammula). I. 107.
stuppea (Lasiosphæria). I. 850.
Stylosanthis (Cercospora). II. 623.
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Styracum (Schweinitziella). I. 1005.
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subalbida (Russula). I. 62.
subaquatica (Pterula). I. 255.
subastomum (Hyaloderma). I. 438.
subaurantiacum (Corticium). I. 230.
subaffixa (Diatrype). I. 475.
subapplanata (Micropeltis). I. 1071.
subastroideum (Arthothelium). II. 78.
subcæspitosa (Comatricha). II. 87,
subcæspitosa (Hiatula). I. 41.
subcæspitosa (Leptosphæria). I. 766.
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subcembrinum (Arthothelium). II. 78.
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subclausum (Amerosporium). II. 437.
subclavata (Stemonites). II. 87.
subcoccodes (Lasmenia). II. 425.
subcoccodes (Roussoella). I. 1045.
subcollapsum (Lophiostoma). I. 1085.
subcompactum (Cladosporium). II. 603.
subcomplanata (Phoma). II. 177.
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subcongregata (Sphærella). I. 651.
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subcorticalis (Rosellinia). I. 500.
subcorticalis (Zignoella). I. 867.
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subdenticulatus (Cantharellus). I. 64.
subdenudatum (Ceratostoma). I. 481.
subdispersum (Melanomma). I. 805.
subditopoda (Clitocybe). I. 26.
subdola (Sphæropsis). II. 258.
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Suberis (Cœlosphæria). I. 443.
Suberis (Gloeosporium). II. 455.
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subfalcatum (Gloeosporium). II. 451.
subfasciculata (Melanopsamma). I. 686.
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subfusca (Trichia). II. 94.
subfuscum (Hydnum). I. 213.
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subglacialis (Sphærulina). I. 846.
subglobosum (Coniothecium). II. 670.
subglobosum (Gloeosporium). II. 459.
subgranulosum (Coniosporium). II. 570.
subgregarium (Lophidium). I. 1092.
subgrisea (Omphalia). I. 42.
subgrisea (Rhabdospora). II. 395.
subhyalina (Uredo). I. 328.
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subiculosa (Amphisphæria). I. 743.
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subnodosum (Cladosporium). II. 601.
subocreatus (Pleurotus). I. 47.
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subsparsum (Melanomma). I. 805.
subsplendens (Clitocybe). I. 240.
substellata (Pigottia). II. 417.
substellatum (Lycoperdon). I. 277.
substrictum (Trichosporium). II. 583.
subterraneum (Corticium). I. 233.
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subvilis (Clitopilus). I. 86.
subvillosula (Ombrophila). II. 39.
subvinosa (Psathyra). I. 143.
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sulphurata (Nectria). I. 968.
sulphurea (Clitocybe). I. 25.
sulphurea (Hypocrea). I. 974.
sulphurea (Nectria). I. 966.
sulphurea (Trichia). II. 95.
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sulphurella (Xylaria var.). I. 530.
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